

October 13, 2011

US EPA RECORDS CENTER REGION 5



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Subject: DS Tributary (East) Work Plan Letter Report
Detrex Source Control Area – Fields Brook Superfund Site
Detrex Corporation, Ashtabula, Ohio
Docket No. V-W-98-C-450

Dear Mr. Thompson:

On behalf of Detrex Corporation (Detrex), URS Corporation (URS) is submitting the attached Letter Report documenting the results and evaluation of the DS Tributary (East) Investigation Work Plan (URS, August 2011). The Work Plan was approved by the United States Environmental Protection Agency (USEPA) in September 2011 and the associated field work was completed on September 13, 2011. As outlined in the approved Work Plan, Detrex completed an additional investigation of a portion of the DS Tributary extending from State Road Bridge to the east along the DS Tributary, as well as a Closed-Circuit Television (CCTV) survey of the State Road culvert from the east to west side of State Road. The remainder of this letter report presents the background, methodologies, results, and data evaluation associated with the completion of the approved Work Plan tasks.

BACKGROUND

In late July 2011, FBAG met with USEPA personnel and presented data obtained from sampling in the eastern portion of the DS Tributary. Detrex did not have an opportunity to review this data until after the meeting between the Fields Brook Action Group (FBAG) and USEPA. The results from this investigation are summarized in a figure developed by FBAG which is presented as **Figure 1**. FBAG reported surface water and sediment samples from six (6) locations along the DS Tributary, as well as the presence of a reported 14-inch diameter drain pipe within the DS tributary culvert that passes underneath State Road. The assumed location and orientation of the 14-inch drain pipe is also depicted in **Figure 1**. Based on the reported laboratory from the FBAG Samples (June 2011), no exceedances of the previously established Sediment Confidence Removal Goals (CRGs) were reported for the sediment samples from the eastern portion of the DS Tributary. The highest total VOC result for surface water was 7,644 µg/L, from a sample obtained from the 14-inch drain line located within the State Road culvert. Additionally, no dense non-aqueous phase liquid (DNAPL) was reportedly observed. This was the same area that was sampled by Detrex in April 2011.

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During the April 2011 sampling event, URS and Detrex personnel completed a visual inspection of the DS Tributary, both upstream and downstream of the State Road Culvert. These results were submitted to the USEPA in a letter dated May 24, 2011. The results of the Detrex April 2011 sampling did not indicate any significant impacts and no DNAPL or sheen was noted at the time of the sampling. However, the data reported to USEPA by FBAG was not consistent with the April 2011 results. Additionally, as part of the July 2011 FBAG presentation to USEPA data from an area referred to as the "Detrex Ditch" was reported. The location of this ditch is on Detrex property and is located within the existing storm water collection system.

Based on subsequent discussions between USEPA and Detrex an Addendum to the previously submitted Additional Excavation of Western DS Tributary Work Plan (URS, 2011), was prepared to complete an additional investigation along the eastern portion of the DS Tributary extending from the State Road culvert to the east approximately 400 feet. This Addendum outlined additional measures that Detrex would complete related to further investigating the Eastern portion of the DS Tributary, including:

- The completion of field reconnaissance along the eastern portion of the DS Tributary;
- The completion of a Closed-Circuit Television (CCTV) survey of the DS Tributary culvert, extending from the east to west side of State Road; and
- The collection and laboratory analysis of sediment and surface water samples from selected locations along the eastern portion of the DS Tributary, extending from the east side of State Road approximately 400 feet (ft.).

The proposed sampling locations for the eastern portion of the DS Tributary, as outlined in the Addendum, are provided in **Figure 2**.

SEPTEMBER 2011 DS TRIBUTARY (EAST) METHODOLOGIES

The area of completed additional investigation is depicted in **Figure 3**. The field work was completed from September 13, 2011. Details related to the methodologies employed during the completion of field activities are provided in the following sections.

DS TRIBUTARY (EAST) FIELD RECONNAISSANCE

On September 13, 2011, Detrex and URS personnel, along with USEPA, SulTRAC and Ohio EPA personnel, completed the visual field reconnaissance of the DS Tributary extending from the east side of the State Road culvert to approximately 400 feet east along the DS Tributary, as well as the area referred to by FBAG in their July 2011 presentation to the USEPA as the "Detrex Ditch". Field notes and a photographic log were completed as part of the visual reconnaissance. Further details related to the results of the field reconnaissance are discussed later in this letter report.



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CLOSED-CIRCUIT TELEVISION (CCTV) INSPECTION

On September 13, 2011, URS conducted a Closed-Circuit Television (CCTV) inspection for the 3ft. x 5ft. box culvert and adjacent 60-inch diameter storm pipe connecting the eastern and western sides of the DS Tributary underneath State Road. The inspection was completed using both hand-held video equipment within the 60-inch and 3ft. x 5ft. box culverts underneath State Road, and a crawler camera to access the FBAG identified 14-inch drain line. The CCTV inspection was treated as a confined space entry and appropriate health and safety measures were employed by URS during the completion of the task.

URS personnel utilized an EnviroSight[®] 600 crawler camera to inspect the drain line. This camera has the ability to pan and tilt 360 degrees and zoom to identify problem areas. The camera is a robot type of camera that is controlled from a specialized truck used specifically for the inspection.

Logs of the hand-held video and CCTV survey were completed to document the observations found during the inspections. Further details related to the results of the CCTV inspection are discussed later in this letter report.

DS TRIBUTARY (EAST) SEDIMENT & SURFACE WATER SAMPLING

On September 13, 2011, URS conducted surface water and sediment sampling at seven (7) along and within the eastern portion of the DS Tributary. It is noted that six (6) locations were originally scoped in the Addendum; however, based on the field reconnaissance an additional location was required to provide for the sampling of the entire eastern portion of the DS Tributary prior to it turning to the north from the Detrex Site. The completed sampling locations were identified as DST SED 2011-01 through DST SED 2011-07. The sampling locations were equally spaced on approximately 75 foot spacing, with the exception of the final location (DST SED 2011-07) which was approximately 40 ft from the previous sampling location (DST SED 2011-06). The approximate locations of the sediment & surface water sampling locations are depicted in **Figure 3**.

The sampling procedures that were followed in the field were consistent with those outlined in both the previously approved *Sediment / DNAPL Delineation Work Plan* (URS, 2009) and the DS Tributary Work Plan Addendum (URS, 2011). A summary of the sampling procedure is provided below.

- At each location, a 3 ½ inch diameter hand auger was advanced through sediment into underlying soil to a depth of no more than 2 feet below ground surface (ft-bgs) or refusal.
- An 8-inch diameter PVC pipe was driven into the channel to prevent surface water from entering the location during sampling.



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- The depth of sediment was recorded and a sediment sample will be collected at each of the locations (i.e., DST SED 2011-01 thru DST SED 2011-07).
- The sediment samples were subsequently submitted for analytical testing. The sediment samples were analyzed for volatile organic constituents (VOCs) utilizing USEPA Test Method 5035 – 8260B, and semi-volatile organic constituents (SVOCs) utilizing USEPA Test Method – 8270C.
- Surface water samples were also collected at coincident locations, with the exception of DST SED 2011-06, and submitted for analytical testing. Surface water samples were identified similar to the sediment samples (i.e., DST SED 2011-01 through DST SED 2011-05, DST SED 2011-07). Surface water samples were also analyzed for VOCs utilizing USEPA Test Method 8260B, and SVOCs utilizing USEPA Test Method – 8270C. The sampling locations were flagged in the field for subsequent surveying.

It is noted that no surface water sample was obtained from location DST SED 2011-06. This is due to the fact that only six (6) sets of sample vials were received from the lab, and since another location was added to the sampling program there were not enough vials to provide for the sampling. It was determined in the field that a surface water sample from the farthest point would be more appropriate so DST SED 2011-07 was sampled instead of DST SED 2011-06.

SEPTEMBER 2011 DS TRIBUTARY (EAST) RESULTS SUMMARY

This section provides a summary of the results from the completed DS Tributary (East) investigation. The data are summarized and presented as either tables or attachments to this letter report.

DS TRIBUTARY (EAST) FIELD RECONNAISSANCE

URS personnel arrived at the Detrex Site at approximately 8:00 AM on September 13, 2011. All URS personnel signed in at the Detrex office and attended a safety and task meeting. In addition, USEPA, SulTRAC, and Ohio EPA personnel attended the safety meeting and observed the sampling program. Following the completion of the safety meeting, URS personnel conducted the field reconnaissance and sediment/surface water sampling of the eastern portion of the DS Tributary. A photographic log and field log book notes were recorded during the completion of the field reconnaissance. The photographic log and a copy of the field log book notes are included as **Attachment A**.

CLOSED-CIRCUIT TELEVISION (CCTV) INSPECTION

URS personnel arrived at the Detrex Site at approximately 8:30 AM on September 13, 2011. All URS personnel signed in at the Detrex office and attended a safety and task meeting. Following the completion of the safety meeting, URS personnel conducted a walk through video observation of the existing culvert that extends east-west underneath State Road, just north of the Detrex Site. The primary



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objective of the CCTV inspection was to observe the general condition of the culvert and to document any storm water connections to the culvert from the general direction of the Detrex Site. In addition, the 14-inch drain line, previously reported by FBAG, was also investigated as part of the CCTV inspection.

During the CCTV inspection, the level of water constantly running through the culvert was observed to vary along the pipe, but generally ranged between 1-5 inches of water. Observations within the culvert were documented with a hand-held video camera. URS personnel entered the 60-inch circular reinforced concrete culvert from the upstream (east) end of the culvert, and proceeded to walk west (along with the flow) through the culvert making observations until reaching the west end of the culvert.

A copy of the video footage was transferred to DVD, and a log of the observations (in PDF format) was also prepared using Wincan® V8 CCTV inspection software. Video files and PDF annotated logs from the completed CCTV inspection are provided as **Attachment B**.

DS TRIBUTARY (EAST) SEDIMENT & SURFACE WATER SAMPLING

URS personnel arrived at the Detrex Site at approximately 8:00 AM on September 13, 2011. All URS personnel signed in at the Detrex office and attended a safety and task meeting. Following the completion of the safety meeting, URS personnel conducted the field reconnaissance and sediment/surface water sampling of the eastern portion of the DS Tributary.

As outlined previously, the completed sampling locations were identified as DST SED 2011-01 through DST SED 2011-07. The sampling locations were equally spaced on approximately 75 foot spacing, with the exception of the final location (DST SED 2011-07) which was approximately 40 ft from the previous sampling location (DST SED 2011-06). The sediment and surface water samples, collected as part of the completed work, were subsequently submitted for analytical testing. The sediment samples were analyzed for VOCs utilizing Method 5035 – 8260B, and SVOCs utilizing Method – 8270C. Surface water samples were also analyzed for VOCs utilizing Method 8260B, and SVOCs utilizing Method – 8270C.

The collected samples were stored on ice in coolers and transported to Precision Analytical, Inc. located in Cleveland, Ohio for analysis under proper chain of custody. Samples were received by the lab on September 14, 2011, and no problems with the samples, analytical event, or quality control data were reported. The analytical results summary of detectable constituents from each of the sampling locations is provided in **Table 1**. The entire laboratory analytical report is provided as **Attachment C**.

SEPTEMBER 2011 DS TRIBUTARY (EAST) RESULTS EVALUATION

The following section provides details related to the evaluation of the data collected during the completion of the DS Tributary (East) investigation. All of the work outlined in the approved

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Work Plan was safely and successfully completed with no significant deviations from the Work Plan.

DS TRIBUTARY (EAST) FIELD RECONNAISSANCE

During the field reconnaissance no remarkable issues were identified. The DS Tributary was fairly-well vegetated with no visible signs of vegetative stress or impacts from potential contaminants. Surface water was present within the DS Tributary at the time of sampling. No DNAPL was observed at any sampling point along the eastern portion of the DS Tributary channel. Additionally, the area referred to by FBAG as the "Detrex Ditch" is actually part of the property which is contained by the existing storm water controls for the Site. This area drains to a catch basin where it is collected and treated in the existing waste water treatment plant prior to discharge through the permitted Detrex NPDES discharge outfall. Further, the previously unknown 15-inch drain line that was investigated as part of the CCTV inspection also appears to be part of a former storm water system. This line is now at least partially plugged and the original manhole is within the existing storm water control system for the Detrex Site. A copy of a Detrex figure showing the storm water surface control features is provided as **Attachment D**.

CLOSED-CIRCUIT TELEVISION (CCTV) INSPECTION

Based on a review of the various video files and field logs, a summary of general observations made during the CCTV inspection of the culvert is provided as follows:

- Rocks and sediment were present in the invert of the culvert throughout the entire length. It is noted that no cleaning of the pipe was performed prior to the walk through.
- The pipe surface at the invert (6 o'clock position) shows surface damage throughout the length of the pipe. The concrete is eroded and the rebar reinforcement is also eroded and protruding throughout the length of the pipe. However the floor of the pipe is still sound with no holes or voids observed.
- Most pipe joints were dry and in good condition with only a few joints showing infiltration stains.
- Approximately 85 feet to the west of the east culvert opening, a chamber is present. At this location the culvert shape transitions from a 60-inch diameter round pipe to an approximately 3.5' x 6' rectangular box culvert.
- At the chamber, three (3) 15-in. diameter round clay storm inlet pipes enter the culvert. One from the north, one from the south and one from the southeast direction.
 - The north inlet pipe had a small amount of flow through it. It also contained rocks, sediment and debris in it.
 - The south pipe was blocked off with an apparent concrete plug approximately four (4) feet upstream of the culvert. No flow was present in this pipe and only a small amount of standing water was present in the pipe.

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- The southeast pipe (i.e., previously identified FBAG 14-in. drain line) had a trickle of flow through the pipe. From the view from inside of the culvert, the pipe appeared to be open. The pipe extended approximately eight (8) feet upstream of the culvert and then appeared to take a bend to the southeast. A crawler type camera was inserted into this pipe to further document the pipe.
- The crawler inspection revealed that the southeast pipe contained sediment material which gradually increased in volume further up the pipe. At approximately 36 feet the camera could not advance further due to accumulated sediment in the pipe. It is most probable that the pipe is blocked further upstream. Based on historical drawings showing storm water improvements in 1989, this pipe apparently was formerly used to drain the front portion of the Detrex Site, prior to the implementation of the existing storm water controls. No flow was observed at the upstream end of this pipe. The CCTV log report contains further observations of this pipe.
- The box culvert was constructed of a combination of old block material and newer poured reinforced concrete walls and extends approximately 90 feet from the chamber.
- Rocks and sediment were present on the floor of the pipe throughout the length of the box culvert.
- Several cracks, voids and minor occurrences of water infiltration were observed on various locations on the walls of the transition chamber and remaining box culvert.
- At the bottom of each wall, both on the north and south sides, the concrete and block material is eroded and the rebar reinforcement underneath the poured concrete sections is also eroded and protruding throughout the length of the pipe. However, the floor of the pipe is sound with no holes or voids observed.
- One 15-in. diameter, round reinforced concrete pipe enters the culvert from the north approximately 55 feet downstream of the chamber. This pipe contained approximately two (2) inches of constant flow of water in the pipe.
- No unusual odors were noticed inside of the culvert except for a slight industrial chemical odor at the outlet (west) end of the culvert. No airborne contaminants were recorded by the air monitoring equipment used during the walk.
- URS personnel conducted a conventional survey of the elevations of the culvert and inlet storm pipes observed.

The video files and PDF logs of the CCTV inspections provide additional detail related to the results of the CCTV inspection (see **Attachment B**). It should be noted that there were additional discharge pipes and penetrations into the culvert that enter from the north side. These discharge pipes would not be associated with the Detrex Site, which lies to the south and southeast of the culvert.

DS TRIBUTARY (EAST) SEDIMENT & SURFACE WATER SAMPLING

As outlined previously, the results of detected VOCs from the sediment and surface water sampling completed at sampling locations DST SED 2011-01 through DST SED 2011-07 are summarized in

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Table 1. Only a limited number of VOCs were reported above detection limits, and no SVOCs were reported above detection limits. For the VOCs, the majority of the reported detections were for TCE and cis-1,2-DCE, while PCE, VC and trans-1,2-DCE had one detection each. The distributions of individual constituent detections in either surface water or sediment sample are summarized in box plots shown in **Figures 4 and 5**, respectively. Total VOCs for both surface water and sediment samples are presented graphically in **Figure 6**. It should also be noted that in **Figures 4 through 6**, the previously reported FBAG surface water and sediment results are reported in either $\mu\text{g}/\text{L}$ or $\mu\text{g}/\text{kg}$, as appropriate.

Based on the September 2011 sampling event it is noted that cis-1,2-DCE is consistently detected in all surface water samples except for DST SED 2011-01, with concentrations generally decreasing from DST SED 2011-07 to DST SED 2011-01 (i.e., upstream to downstream). TCE was the only other VOC detected in the surface water samples, and was limited to DST SED 2011-05 through DST SED 2011-07 at levels slightly higher than detection limits. No other VOCs were reported above detection limits in the surface water samples (see **Table 1 and Figure 4**).

Similar results are observed for the sediment samples. Cis-1,2-DCE was reported in all sediment samples except for DTS SED 2011-01, with concentrations generally decreasing from DST SED 2011-07 to DST SED 2011-01 (i.e., upstream to downstream). As in the surface water samples, TCE was also detected in four sediment samples (i.e., DST SED 2011-02, -04, -06, and -07), with a general decrease as the locations get closer to State Road. For the sediment samples two other VOCs (i.e., trnas-1,2-DCE and VC) were sporadically reported above detection limits. Trans-1,2-DCE was reported at DST SED 2011-06, and VC was reported at DST SED 2011-07 (see **Table 1 and Figure 5**).

Combining all of the detectable VOCs to generate a total VOC number provides some additional insight into the VOC distribution, as it is noted that the total VOC values decrease from the farthest upstream sampling point at DST SED 2011-07 to non-detect (ND) at DST SED 2011-01 (see **Table 1 and Figure 6**).

CONCLUSIONS

Based on the results of the DS Tributary (East) Investigation completed from September 13, 2011 at the Detrex Site, the following conclusions are presented.

- The field reconnaissance of the eastern portion of the DS Tributary did not reveal any remarkable features that would indicate an ongoing discharge of DNAPL to the DS Tributary from the Detrex Site.
- The results of the CCTV inspection indicated that the culvert is eroded along the bottom, but generally intact; and there were no indications of significant seepage of water into the

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culvert from exposed joints. Further, no DNAPL was observed within the culvert and air monitoring results did not indicate the presence of any significant levels of VOCs.

- The CCTV inspection also identified a number of penetrations coming into the culvert from both the north and south.
 - The 15-in. drain line, previously noted by FBAG as a 14-in. drain line appears to extend approximately 36 ft. from the culvert in a southeast direction. However, at this point the line appears to be filled with sediment and only a trickle of water was observed from this line. Detrex plans on completely plugging this line in conjunction with upcoming activities in the western portion of the DS Tributary.
 - Another 15-in line coming into the culvert from the south was identified, but this line was found to be plugged approximately 4 ft. into the line and no water was observed discharging from this line.
 - Penetrations from the north side of the culvert were also observed, but these were not explored as they do not originate from the Detrex Site. Water was observed to be discharging from at least one of the identified north penetrations into the culvert.
- The results of the surface water and sediment sampling from the seven sampling location along the eastern portion of the DS Tributary reported low level impacts of a limited number of VOCs and no SVOCs were detected.
- The reported surface water results are not indicative of the presence of DNAPL based on accepted rules of thumb for dissolved phase constituents in contact with free product. Additionally, no sheens were observed during surface water sampling. In general the results agree with those previously reported by FBAG with the exception of FBAG sample 6-16-11-1 which reported 3,790 µg/L of total VOCs. Based on field observations of a stake at this location, this sample was obtained from the northern bank of the DS Tributary and not within the DS Tributary.
- The reported sediment sample results were all well below the established CRGs and the reported concentrations were not indicative of the presence of DNAPL. No sheens were observed during the sediment sampling.
- Overall, the reported surface water and sediment sample results detected were very low concentrations of VOCs and no SVOCs. Based on these results, as well as previously reported results, it does not appear that the eastern portion of the DS Tributary is an ongoing source of DNAPL to the downstream area. The data continues to support the historic nature of noted impacts in the downstream DS Tributary area and is not the result of ongoing releases from the Detrex Site.



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CLOSING

Once USEPA has had an opportunity to review this letter report, Detrex would like to schedule a conference call to address any question or comments. Detrex plans to continue to implement the DS Tributary Excavation Work Plan which has already been approved by the USEPA. In addition to the excavation in the western portion of the DS Tributary (State Road Area), Detrex will also plug the 15-inch drain pipe identified on the south side of the culvert with concrete. The DS Tributary Excavation work is tentatively planned to begin on October 17, 2011, pending favorable weather conditions.

In the meantime, if you have any questions regarding this submittal, please do not hesitate to contact me at 216-622-2432 at your convenience.

Sincerely,

URS Corporation - Ohio

Martin L. Schmidt, Ph.D.
Vice President

Enclosures – Figures, Tables, and Attachments

cc: R. Currie – Detrex Corporation
T. Steib – Detrex Corporation
T. Doll - Detrex Corporation
D. Gray – URS Corporation
R. Williams – Ohio EPA
W. Earle – SulTRAC
File Copy



Tables

Table 1

Detrex Site - Ashtabula, OH

DS Tributary (East of State Road)

Surface Water Samples - September 13, 2011

Sample ID	Units	cis-1,2 DCE	trans-1,2 DCE	PCE	TCE	VC	Chloroform	Dibromochloromethane	Total VOCs
DST SED 2011-1	mg/L	<0.005 (ND)	<0.0100 (ND)	<0.005 (ND)	<0.005 (ND)	<0.005 (ND)	<0.005 (ND)	<0.005 (ND)	ND
DST SED 2011-2	mg/L	0.0059	<0.0100 (ND)	<0.005 (ND)	<0.005 (ND)	<0.005 (ND)	<0.005 (ND)	<0.005 (ND)	0.006
DST SED 2011-3	mg/L	0.00786	<0.0100 (ND)	<0.005 (ND)	<0.005 (ND)	<0.005 (ND)	<0.005 (ND)	<0.005 (ND)	0.008
DST SED 2011-4	mg/L	0.0117	<0.0100 (ND)	<0.005 (ND)	0.00553	<0.005 (ND)	<0.005 (ND)	<0.005 (ND)	0.017
DST SED 2011-5	mg/L	0.0183	<0.0100 (ND)	<0.005 (ND)	0.00513	<0.005 (ND)	<0.005 (ND)	<0.005 (ND)	0.023
DST SED 2011-6	mg/L	n/a	n/a	n/a	n/a	n/a	n/a	n/a	ND
DST SED 2011-7	mg/L	0.0156	<0.0100 (ND)	<0.005 (ND)	0.0204	<0.005 (ND)	<0.005 (ND)	<0.005 (ND)	0.036
Trip Blank	mg/L	<0.005 (ND)	<0.005 (ND)	<0.005 (ND)	<0.005 (ND)	<0.005 (ND)	0.00793	<0.005 (ND)	0.008

Note:

1) All samples non-detect (ND) for semi-volatile organics (SVOCs)

2) All volatile organics (VOCs) other than noted above were non-detect (ND)

Detrex Site - Ashtabula, OH

DS Tributary (East of State Road)

Sediment Samples - September 13, 2011

Sample ID	Units	cis-1,2 DCE [CRG = n/a]	trans-1,2 DCE [CRG = n/a]	PCE [CRG = 392 mg/kg]	TCE [CRG = 1854 mg/kg]	VC [CRG = n/a]	Chloroform [CRG = n/a]	Dibromochloromethane [CRG = n/a]	Total VOCs [CRG = n/a]
DST SED 2011-1	mg/kg	<0.0214 (ND)	<0.0214 (ND)	<0.0214 (ND)	<0.0214 (ND)	<0.0214 (ND)	<0.0214 (ND)	<0.0214 (ND)	ND
DST SED 2011-2	mg/kg	0.0205	<0.0104 (ND)	<0.0104 (ND)	0.0164	<0.0104 (ND)	<0.0104 (ND)	<0.0104 (ND)	0.037
DST SED 2011-3	mg/kg	0.0146	<0.00795 (ND)	<0.00795 (ND)	<0.00795 (ND)	<0.00795 (ND)	<0.00795 (ND)	<0.00795 (ND)	0.015
DST SED 2011-4	mg/kg	0.0332	<0.00810 (ND)	<0.00810 (ND)	0.0356	<0.00810 (ND)	<0.00810 (ND)	<0.00810 (ND)	0.069
DST SED 2011-5	mg/kg	0.0263	<0.0108 (ND)	<0.0108 (ND)	<0.0108 (ND)	<0.0108 (ND)	<0.0108 (ND)	<0.0108 (ND)	0.026
DST SED 2011-6	mg/kg	0.0952	0.0135	0.0239	0.186	<0.00895 (ND)	<0.00895 (ND)	0.0331	0.352
DST SED 2011-7	mg/kg	0.419	<0.00735 (ND)	<0.00735 (ND)	0.00769	0.114	<0.00735 (ND)	<0.00735 (ND)	0.541

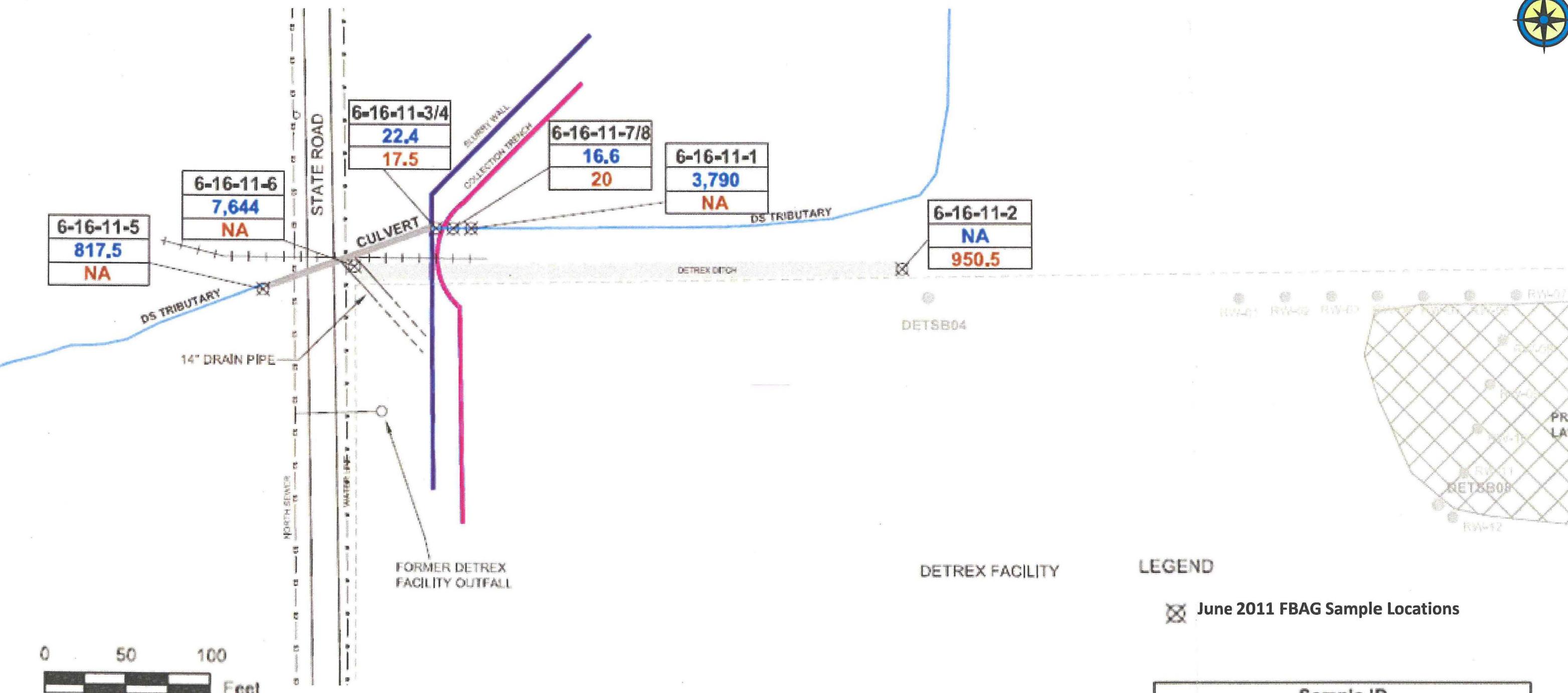
Note:

1) All samples non-detect (ND) for semi-volatile organics (SVOCs)

2) All volatile organics (VOCs) other than noted above were non-detect (ND)

Figures

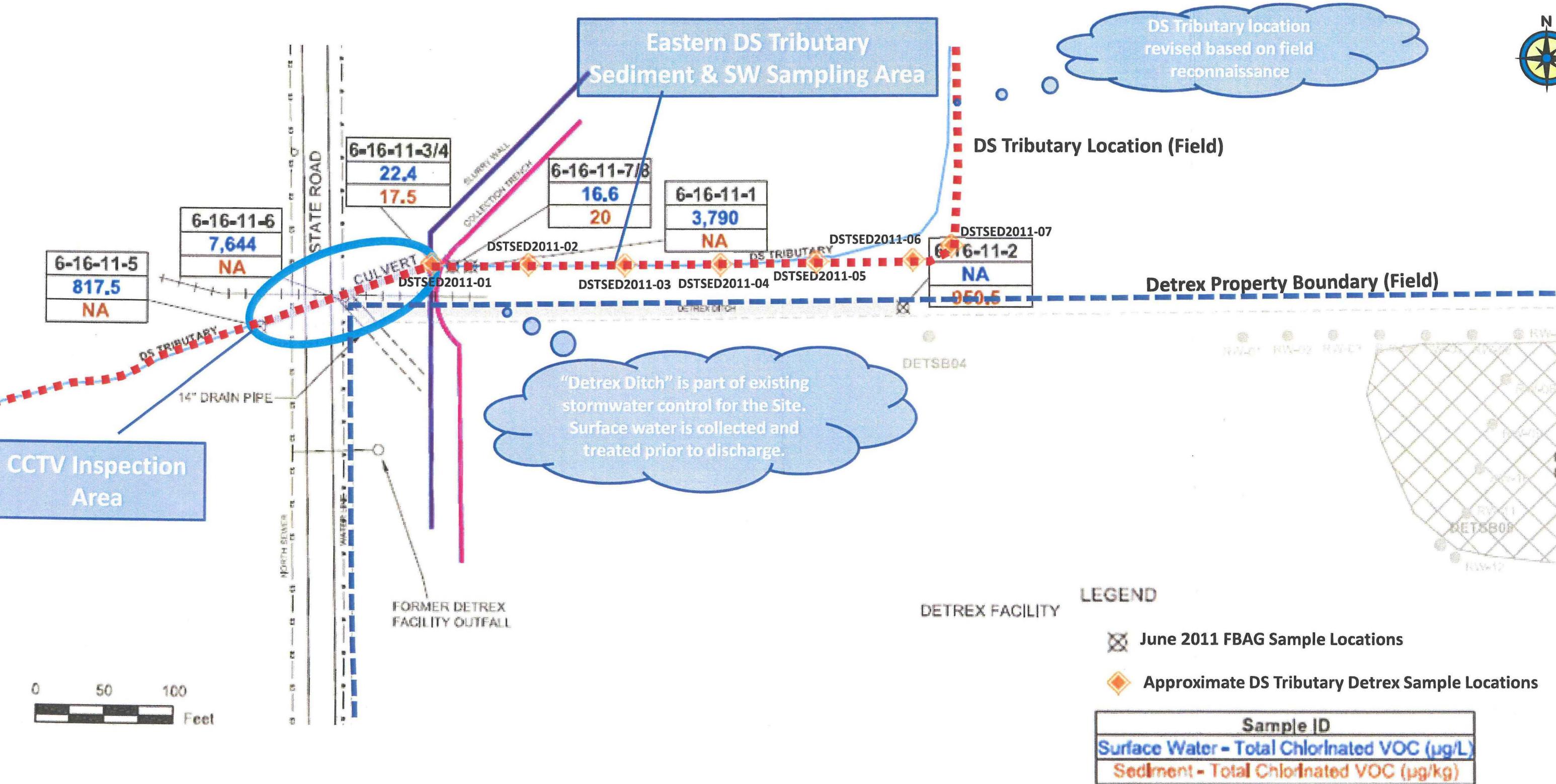
Detrex Site – FBAG June 2011 Sampling Results DS Tributary (East)



Note: Figure reproduced from FBAG Slide (July 2011 USEPA Meeting)

Figure 1

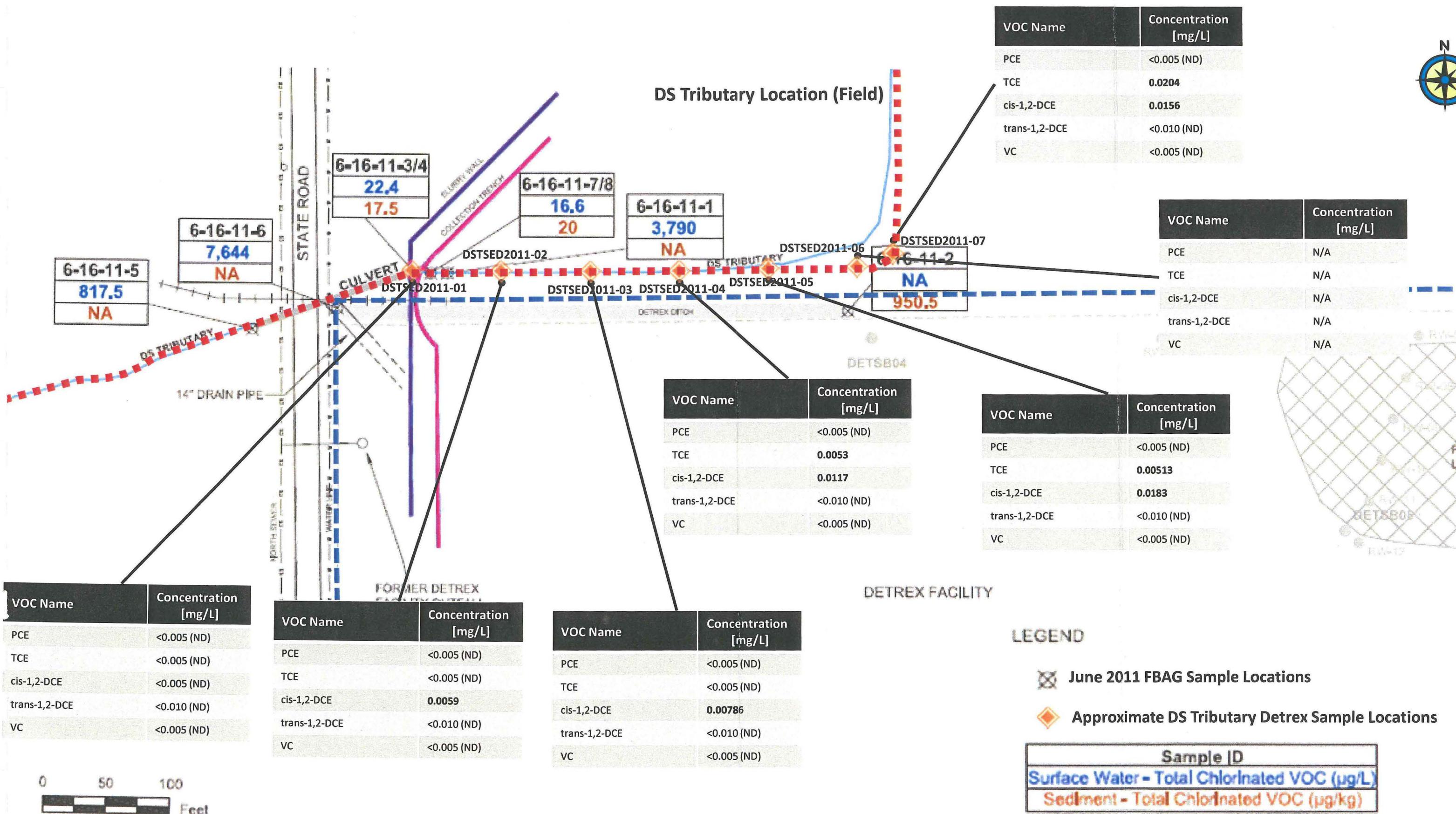
Detrex Site – Completed DS Tributary (East) Investigation Locations



Note: Original Figure reproduced from FBAG Slide (July 2011 USEPA Meeting)

URS Field Observed revisions noted on figure above

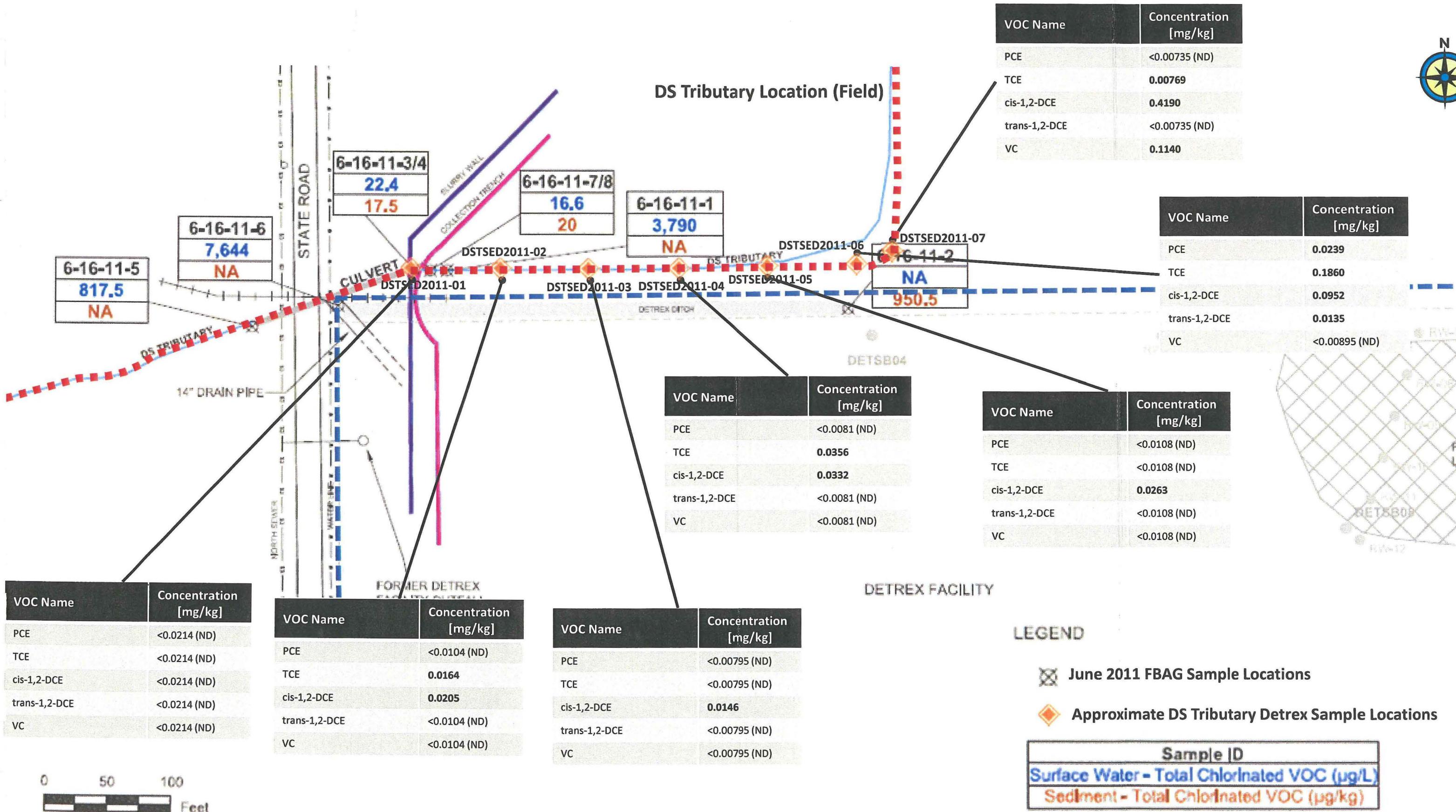
Detrex Site – DS Tributary (East) SW Sampling Results



Note: Original Figure reproduced from FBAG Slide (July 2011 USEPA Meeting)
URS Field Observed revisions noted on figure above

Figure 4

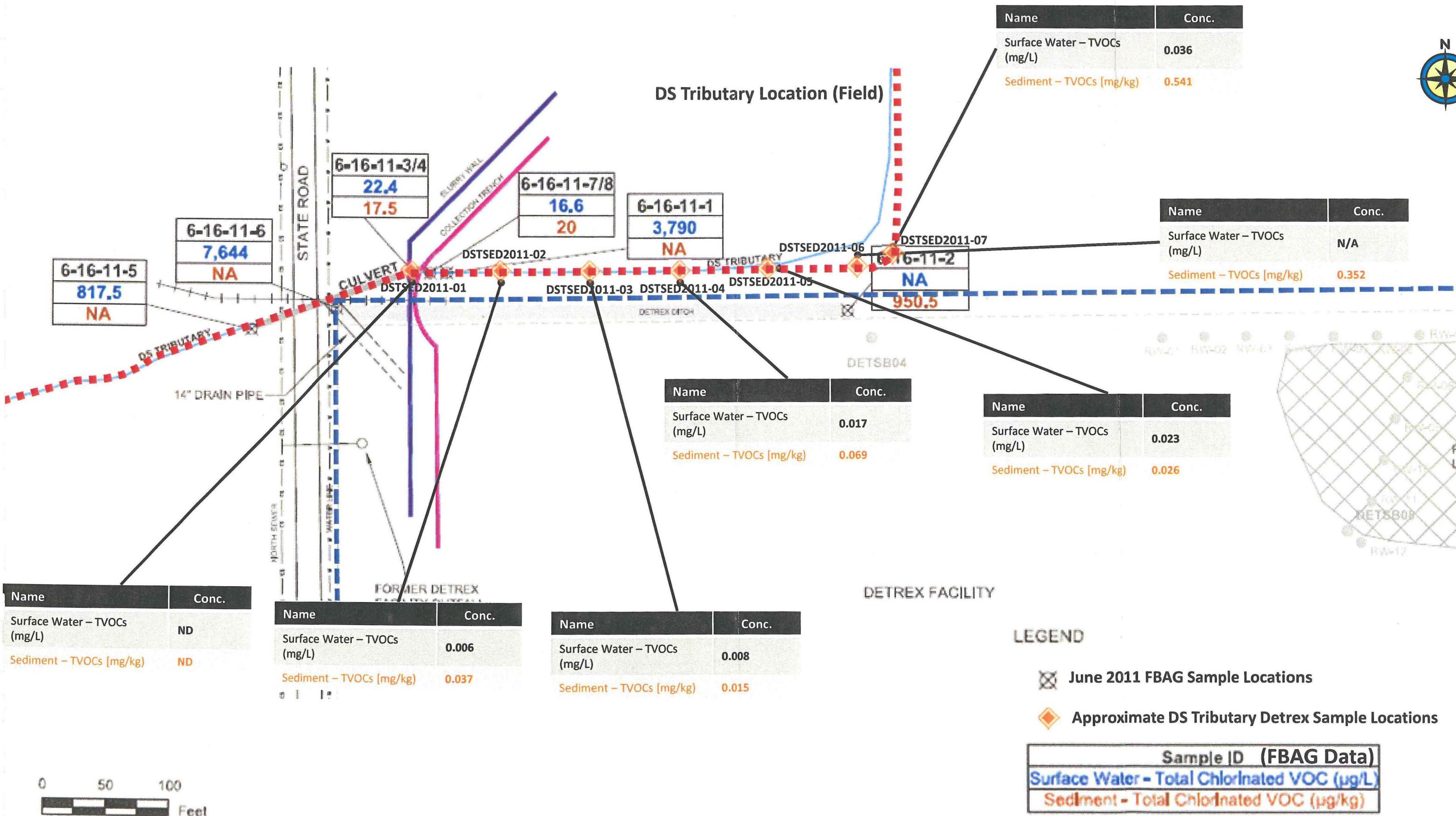
Detrex Site – DS Tributary (East) Sediment Sampling Results



Note: Original Figure reproduced from FBAG Slide (July 2011 USEPA Meeting)
URS Field Observed revisions noted on figure above

Figure 5

Detrex Site – DS Tributary (East) Sediment/SW Sampling Results



Note: Original Figure reproduced from FBAG Slide (July 2011 USEPA Meeting)
URS Field Observed revisions noted on figure above



Attachment A
DS Tributary (East) Field Reconnaissance Photographic Log

Client Name:
Detrex Corporation**Site Location:** 1100 State Road, Ashtabula,
Ohio**Project No.**
13814613.11501**Photo No.**
1**Date:**
9/13/11**Description:**

Looking West - DS
Tributary east of State
Road prior to sampling.

Photo taken at the
approximate turn of DS
Tributary toward the north.

**Photo No.**
2**Date:**
9/13/11**Description:**

Looking North – DS
Tributary prior to sampling
at point where the tributary
turns toward north.



Client Name:
Detrex Corporation

Site Location: 1100 State Road, Ashtabula,
Ohio

Project No.
13814613.11501

Photo No. 3 **Date:** 9/13/11

Description:

Looking West – DS
Tributary.

Note fiberglass tape
measure on railroad tracks
illustrates the approximate
75-foot sampling interval.



Photo No. 4 **Date:** 9/13/11

Description:

Looking North -
Sampling location #1

Sediment and surface
water samples collected
as DSTSED 2011-1 within
a two-foot section of 6-
inch PVC pipe used as a
temporary cofferdam.



Client Name:
Detrex Corporation

Site Location: 1100 State Road, Ashtabula,
Ohio

Project No.
13814613.11501

Photo No.
5 **Date:**
 9/13/11

Description:

Looking North -
Sampling location #2

Sediment and surface
water samples collected
as DSTSED 2011-2



Photo No.
6 **Date:**
 9/13/11

Description:

Looking West -
Sampling location #2

Note hand auger used to
collect sediment samples
within the 6-inch PVC
pipe.



Client Name:
Detrex Corporation**Site Location:** 1100 State Road, Ashtabula,
Ohio**Project No.**
13814613.11501**Photo No.**
7**Date:**
9/13/11**Description:**Looking North -
Sampling location #3Sediment and surface
water samples collected
as DSTSED 2011-3**Photo No.**
8**Date:**
9/13/11**Description:**Looking North -
Sampling location #4Sediment and surface
water samples collected
as DSTSED 2011-4

Client Name:
Detrex Corporation**Site Location:** 1100 State Road, Ashtabula,
Ohio**Project No.**
13814613.11501**Photo No.**
9 **Date:**
9/13/11**Description:**Looking North -
Sampling location #5Sediment and surface
water samples collected
as DSTSED 2011-5**Photo No.**
10 **Date:**
9/13/11**Description:**Looking North -
Sampling location #6Sediment sample
collected as
DSTSED 2011-6

Client Name:
Detrex Corporation

Site Location: 1100 State Road, Ashtabula,
Ohio

Project No.
13814613.11501

Photo No.
11 **Date:**
9/13/11

Description:

Looking North -
Sampling location #7

Sediment and surface
water samples collected
as DSTSED 2011-7
directly south of chain link
fence, note path to the
fence / sampling location.



Photo No.
12 **Date:**
9/13/11

Description:

Looking West - DS
Tributary east of State
Road post sampling.





Attachment B
CCTV Inspection Video (CD) and Inspection Report



Tel:
Fax:
E-mail:

Inspection Report / Inspection: 1

Date 9/12/2011	P/O. No.	Weather Dry	Surveyor's Name McRae	Pipe Segment Reference	Section No. 1
Certificate No. U-507-4972	Survey Customer	System Owner	Date Cleaned	Pre-Cleaning No Pre-Cleaning	Sewer Category

Street123 City Loc. details Location Code	State Road Ashtabula Light Highway	Use of Sewer Drainage Area Flow Control Length surveyed	Stormwater Not Controlled 4.15 ft	Upstream MH Downstream MH Dir. of Survey Section Length	15" South Blockage Upstream 37.30 ft
--	--	--	---	--	---

Purpose of Survey	Routine Assessment	Joint Length	4.00 ft
Year Laid		Dia./Height	15 inch
Year Rehabilitated		Material	Vitrified Clay Pipe
Tape / Media No.	2	Lining Method	

Add. Information : 15" clay pipe from south in culvert under State Road

1:50	Position	Observation
		<p>Blockage 0.00 Downstream 15" South Storm Outlet, Survey Begins</p>  <p>4.15 FT</p> <p>End of Pipe</p> <p>4.15 Survey Abandoned</p>



Tel:
Fax:
E-mail:

Inspection photos / Inspection: 1

City :
Ashtabula

Street :
State Road

Date :

Pipe Segment Reference :

Section No :
1



Photo: 1_1_5_A.JPG, VCR No.: 2
4.15FT, Survey Abandoned



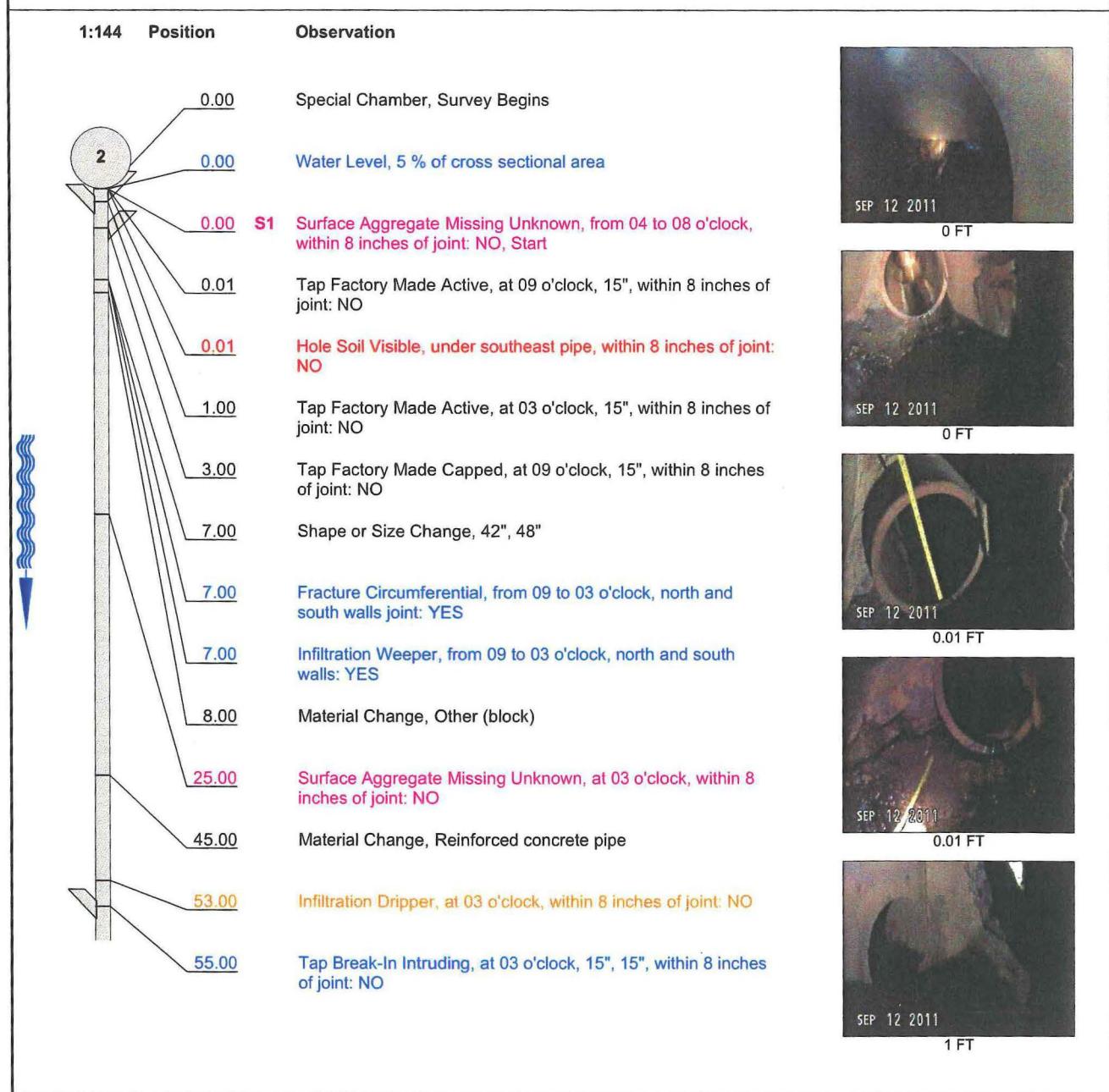
Inspection Report / Inspection: 1

Date 9/12/2011	P/O. No.	Weather Dry	Surveyor's Name KASBERG	Pipe Segment Reference	Section No. 2
Certificate No. U-507-4972	Survey Customer	System Owner	Date Cleaned	Pre-Cleaning No Pre-Cleaning	Sewer Category

Street City Loc. details Location Code	1100 STATE ROAD ASHTABULA N. OF DETREX/ELCO FAC. Light Highway	Use of Sewer Drainage Area Flow Control Length surveyed	Stormwater Not Controlled 91.00 ft	Upstream MH Downstream MH Dir. of Survey Section Length	2 3 Downstream 91.00 ft
---	---	--	--	--	----------------------------------

Purpose of Survey Year Laid Year Rehabilitated Tape / Media No.	Routine Assessment 1	Joint Length Dia./Height Material Lining Method	42 inch Reinforced Concrete Pipe
--	-------------------------	--	-------------------------------------

Add. Information : **Footages are approximate**



City : ASHTABULA

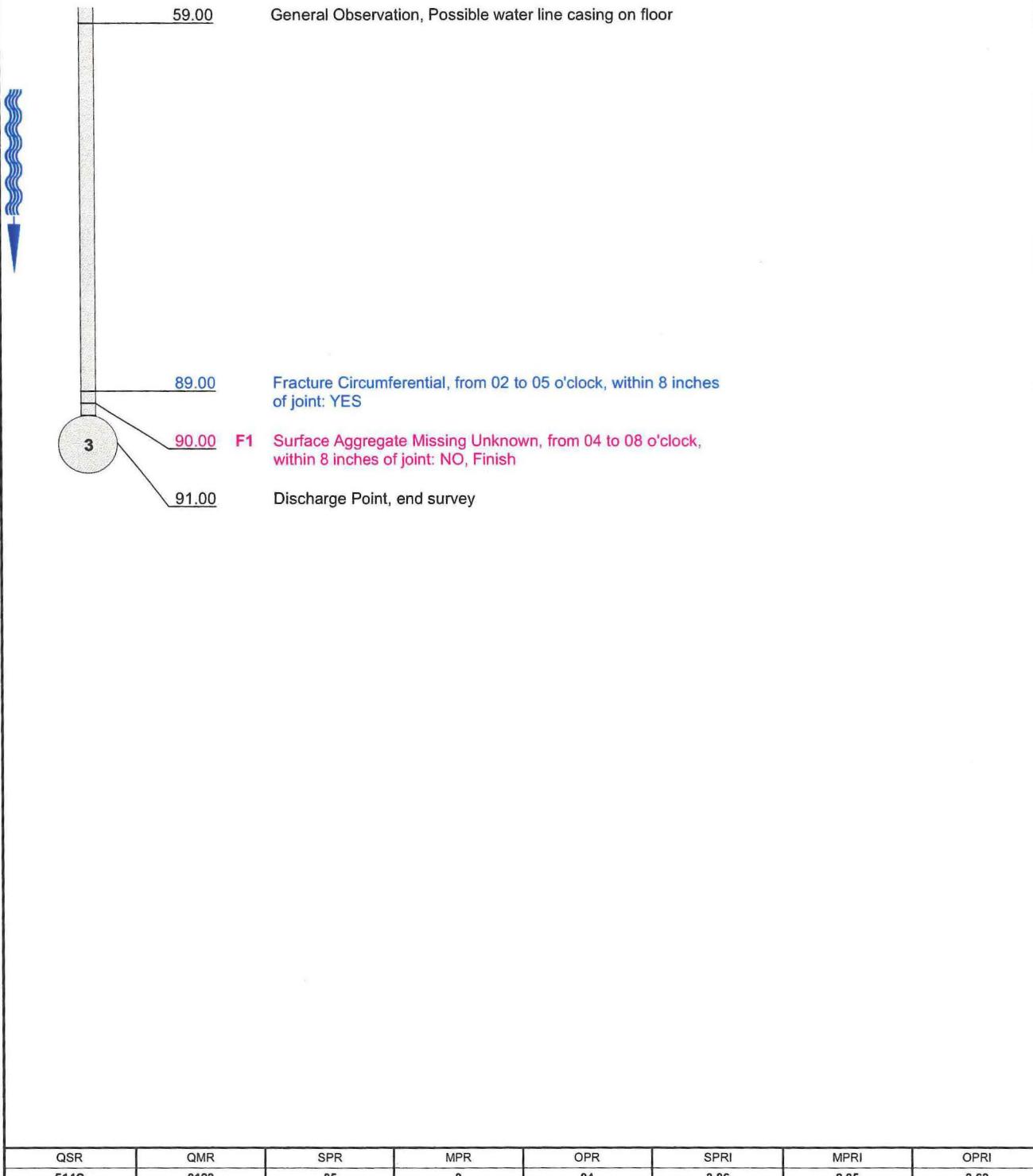


URS CORP. CLEVELAND OFFICE
1375 EUCLID AVE #600
City : CLEVELAND, OH
Tel: 216-622-2400
Fax: 216-622-2428
Email: william.kasberg@urs.com

Inspection Report / Inspection: 1

Date :	Job number :	Weather : Dry	Operator : KASBERG	Counter : 2	Section name :
Present :	Vehicle :	Camera :	Preset :	Cleaned : No Pre-Cleaning	Rate :

1:144 Position Observation



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
514C	3123	85	9	94	3.86	2.25	3.62

City : ASHTABULA



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1375 EUCLID AVE #600
CLEVELAND, OH
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Fax: 216-622-2428
E-mail: william.kasberg@urs.com

Inspection photos / Inspection: 1

City :
ASHTABULA

Street :
1100 STATE ROAD

Date :

Pipe Segment Reference :

Section No :
2



Photo: 2_3_25_A.JPG, VCR No.: 1
0FT, Special Chamber, Survey Begins



Photo: 2_3_30_A.JPG, VCR No.: 1
0FT, Surface Aggregate Missing Unknown, from 04 to 08
o'clock, within 8 inches of joint: NO, Start



Photo: 2_3_28_A.JPG, VCR No.: 1
0.01FT, Tap Factory Made Active, at 09 o'clock, 15", within 8
inches of joint: NO



Photo: 2_3_48_A.JPG, VCR No.: 1
0.01FT, Hole Soil Visible, under southeast pipe, within 8
inches of joint: NO

City : ASHTABULA



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Fax: 216-622-2428
E-mail: william.kasberg@urs.com

Inspection photos / Inspection: 1

City :
ASHTABULA

Street :
1100 STATE ROAD

Date :

Pipe Segment Reference :

Section No :
2

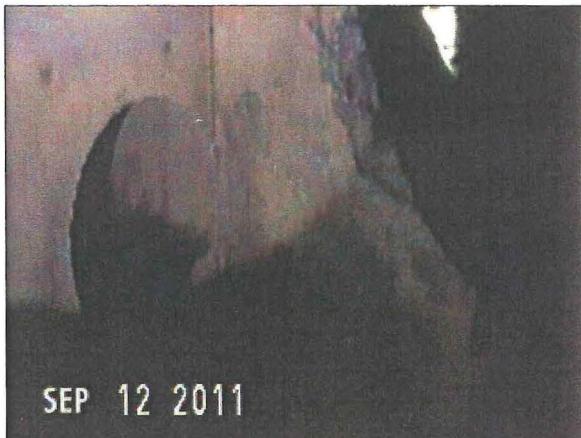


Photo: 2_3_27_A.JPG, VCR No.: 1
1FT, Tap Factory Made Active, at 03 o'clock, 15", within 8
inches of joint: NO



Photo: 2_3_29_A.JPG, VCR No.: 1
3FT, Tap Factory Made Capped, at 09 o'clock, 15", within 8
inches of joint: NO



Photo: 2_3_31_A.JPG, VCR No.: 1
7FT, Shape or Size Change, 42", 48"



Photo: 2_3_33_A.JPG, VCR No.: 1
7FT, Fracture Circumferential, from 09 to 03 o'clock, north and
south walls joint: YES



Inspection photos / Inspection: 1

City : ASHTABULA	Street : 1100 STATE ROAD	Date :	Pipe Segment Reference :	Section No : 2
SEP 12 2011				
Photo: 2_3_32_A.JPG, VCR No.: 1 8FT, Material Change, Other (block)				
SEP 12 2011				
Photo: 2_3_36_A.JPG, VCR No.: 1 25FT, Surface Aggregate Missing Unknown, at 03 o'clock, within 8 inches of joint: NO				
SEP 12 2011				
Photo: 2_3_37_A.JPG, VCR No.: 1 45FT, Material Change, Reinforced concrete pipe				
SEP 12 2011				
Photo: 2_3_38_A.JPG, VCR No.: 1 53FT, Infiltration Dripper, at 03 o'clock, within 8 inches of joint: NO				

City : ASHTABULA



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1375 EUCLID AVE #600
CLEVELAND, OH
Tel: 216-622-2400
Fax: 216-622-2428
E-mail: william.kasberg@urs.com

Inspection photos / Inspection: 1

City :
ASHTABULA

Street :
1100 STATE ROAD

Date :

Pipe Segment Reference :

Section No :
2

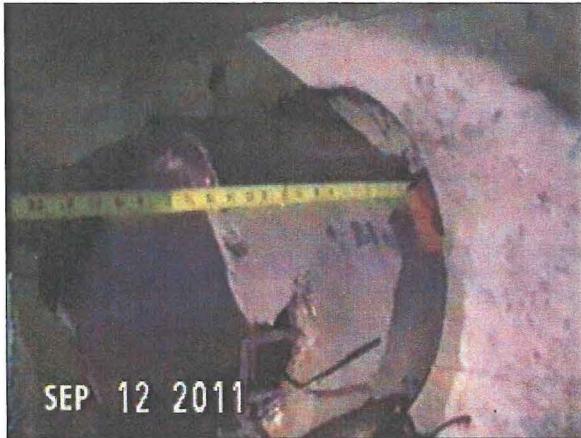


Photo: 2_3_39_A.JPG, VCR No.: 1
55FT, Tap Break-In Intruding, at 03 o'clock, 15", 15", within 8 inches of joint: NO



Photo: 2_3_40_A.JPG, VCR No.: 1
59FT, General Observation, Possible water line casing on floor



Photo: 2_3_45_A.JPG, VCR No.: 1
89FT, Fracture Circumferential, from 02 to 05 o'clock, within 8 inches of joint: YES

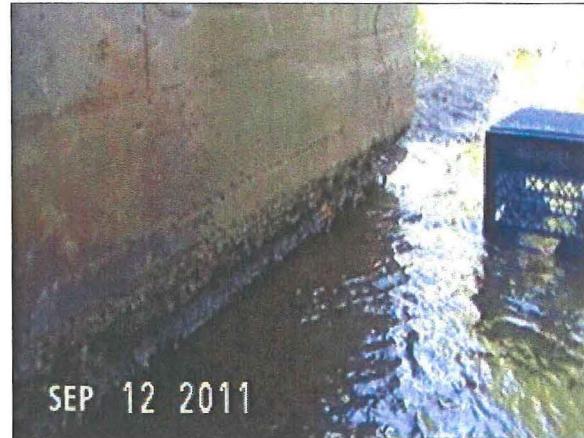


Photo: 2_3_43_A.JPG, VCR No.: 1
90FT, Surface Aggregate Missing Unknown, from 04 to 08 o'clock, within 8 inches of joint: NO, Finish

City : ASHTABULA



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CLEVELAND, OH
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Fax: 216-622-2428
E-mail: william.kasberg@urs.com

Inspection photos / Inspection: 1

City :
ASHTABULA

Street :
1100 STATE ROAD

Date :

Pipe Segment Reference :

Section No :
2



Photo: 2_3_46_A.JPG, VCR No.: 1
91FT, Discharge Point, end survey

URS

Attachment C

Surface Water and Sediment Sampling Analytical Report (Precision Analytical, Inc.)



Precision Analytical, Inc.
4450 Johnston Parkway Unit B
Cleveland, OH 44128
TEL: 216 663 0808 FAX: 216 663 0656
Website: www.precisionanalytical.com

September 29, 2011

Martin Schmidt
URS Corp.
1375 Euclid Avenue
Cleveland, OH 44115
TEL: (216) 622-2400
FAX: (216) 622-2464

RE: DETREX DS-TRIB.

Order No.: 1109347

Dear Martin Schmidt:

Precision Analytical, Inc. received 14 sample(s) on 9/14/2011 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in an attached Case Narrative. Quality control data is within laboratory defined or method specified acceptance limits except if noted. Note that sample results reported relate only the samples as received at the laboratory.

Solid samples are reported in ug/Kg or mg/Kg as received, unless specified in the units as dry weight. Unless otherwise noted, results have not been background or blank corrected.

If you have any questions regarding these tests results, please feel free to call.

Certifications: Ohio EPA - 4041; NELAC NY - 11167; NELAC PA - 68-00434;
W.Va DEP - 245; KY UST - 69

Sincerely,

A handwritten signature in black ink that reads "Scott Bolam".

Scott Bolam
QA/QC Manager



Precision Analytical, Inc.
4450 Johnston Parkway Unit B
Cleveland, OH 44128
TEL: 216 663 0808 FAX: 216 663 0656
Website: www.precisionanalytical.com

Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-001
Client Sample ID DST SED 2011-1

Collection Date: 9/13/2011 3:50:00 PM

Matrix: LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, LIQUID SEMI-VOLATILE ORGANIC COMPOUNDS						
1,2,4-Trichlorobenzene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
1,2-Dichlorobenzene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
1,3-Dichlorobenzene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
1,4-Dichlorobenzene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
2,4,5-Trichlorophenol	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
2,4,6-Trichlorophenol	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
2,4-Dichlorophenol	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
2,4-Dimethylphenol	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
2,4-Dinitrophenol	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
2,4-Dinitrotoluene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
2,6-Dinitrotoluene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
2-Chloronaphthalene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
2-Chlorophenol	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
2-Methylnaphthalene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
2-Methylphenol	ND	0.0200	mg/L	1	9/27/2011 2:08:00 PM	
2-Nitroaniline	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
2-Nitrophenol	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
3&4 Methylphenol	ND	0.0200	mg/L	1	9/27/2011 2:08:00 PM	
3,3'-Dichlorobenzidine	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
3-Nitroaniline	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
4,6-Dinitro-2-methylphenol	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
4-Bromophenyl phenyl ether	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
4-Chloro-3-methylphenol	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
4-Chloroaniline	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
4-Chlorophenyl phenyl ether	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
4-Nitroaniline	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
4-Nitrophenol	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Acenaphthene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Acenaphthylene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Anthracene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Benz(a)anthracene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Benzo(a)pyrene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Benzo(b)fluoranthene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Benzo(g,h,i)perylene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	

Qualifiers: * / X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



Precision Analytical, Inc.
4450 Johnston Parkway Unit B
Cleveland, OH 44128
TEL: 216 663 0808 FAX: 216 663 0656
Website: www.precisionanalytical.com

Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-001
Client Sample ID DST SED 2011-1

Collection Date: 9/13/2011 3:50:00 PM

Matrix: LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, LIQUID						
SEMI-VOLATILE ORGANIC COMPOUNDS						
Benzo(k)fluoranthene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Benzoic acid	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Benzyl alcohol	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Bis(2-chloroethoxy)methane	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Bis(2-chloroethyl) ether	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Bis(2-chloroisopropyl) ether	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Bis(2-ethylhexyl) phthalate	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Butyl benzyl phthalate	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Chrysene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Dibenz(a,h)anthracene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Dibenzofuran	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Diethyl phthalate	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Dimethyl phthalate	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Di-n-butyl phthalate	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Di-n-octyl phthalate	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Fluoranthene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Fluorene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Hexachlorobenzene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Hexachlorobutadiene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Hexachlorocyclopentadiene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Hexachloroethane	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Indeno(1,2,3-cd)pyrene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Isophorone	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Naphthalene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Nitrobenzene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
N-Nitrosodi-n-propylamine	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
N-Nitrosodiphenylamine	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Pentachlorophenol	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Phenanthrene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Phenol	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Pyrene	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Pyridine	ND	0.0100	mg/L	1	9/27/2011 2:08:00 PM	
Surr: 2,4,6-Tribromophenol	80.7	10-123	%REC	1	9/27/2011 2:08:00 PM	
Surr: 2-Fluorobiphenyl	54.9	43-116	%REC	1	9/27/2011 2:08:00 PM	

Qualifiers: */* Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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TEL: 216 663 0808 FAX: 216 663 0656
Website: www.precisionanalytical.com

Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp. **Collection Date:** 9/13/2011 3:50:00 PM
Project: DETREX DS-TRIB. **Matrix:** LIQUID
Lab ID: 1109347-001
Client Sample ID DST SED 2011-1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, LIQUID						
SEMI-VOLATILE ORGANIC COMPOUNDS						
				SW8270C		Analyst: MIM
Surr: 2-Fluorophenol	41.0	21-100	%REC		1	9/27/2011 2:08:00 PM
Surr: Nitrobenzene-d5	68.2	35-114	%REC		1	9/27/2011 2:08:00 PM
Surr: Phenol-d6	28.7	10-94	%REC		1	9/27/2011 2:08:00 PM
Surr: Terphenyl-d14	97.3	33-141	%REC		1	9/27/2011 2:08:00 PM
TCL VOC, LIQUID						
VOLATILE ORGANIC COMPOUNDS						
				SW8260B		Analyst: AC
1,1,1-Trichloroethane	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
1,1,2,2-Tetrachloroethane	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
1,1,2-Trichloroethane	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
1,1-Dichloroethane	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
1,1-Dichloroethene	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
1,2-Dichloroethane	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
1,2-Dichloropropane	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
2-Hexanone	ND	0.0100	mg/L		1	9/15/2011 2:53:00 PM
4-Methyl-2-pentanone	ND	0.0200	mg/L		1	9/15/2011 2:53:00 PM
Acetone	ND	0.0500	mg/L		1	9/15/2011 2:53:00 PM
Benzene	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
Bromodichloromethane	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
Bromoform	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
Bromomethane	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
Carbon disulfide	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
Carbon tetrachloride	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
Chlorobenzene	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
Chloroethane	ND	0.0100	mg/L		1	9/15/2011 2:53:00 PM
Chloroform	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
Chloromethane	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
cis-1,2-Dichloroethene	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
cis-1,3-Dichloropropene	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
Dibromochloromethane	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
Ethylbenzene	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
m,p-Xylene	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
Methyl ethyl ketone	ND	0.0500	mg/L		1	9/15/2011 2:53:00 PM
Methylene chloride	ND	0.0100	mg/L		1	9/15/2011 2:53:00 PM

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



Precision Analytical, Inc.
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TEL: 216 663 0808 FAX: 216 663 0656
Website: www.precisionanalytical.com

Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp. **Collection Date:** 9/13/2011 3:50:00 PM
Project: DETREX DS-TRIB. **Matrix:** LIQUID
Lab ID: 1109347-001
Client Sample ID DST SED 2011-1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL VOC, LIQUID						
VOLATILE ORGANIC COMPOUNDS						
o-Xylene	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
Styrene	ND	0.0200	mg/L		1	9/15/2011 2:53:00 PM
Tetrachloroethene	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
Toluene	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
trans-1,2-Dichloroethene	ND	0.0100	mg/L		1	9/15/2011 2:53:00 PM
trans-1,3-Dichloropropene	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
Trichloroethene	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
Vinyl acetate	ND	0.0100	mg/L		1	9/15/2011 2:53:00 PM
Vinyl chloride	ND	0.00500	mg/L		1	9/15/2011 2:53:00 PM
Surr: 4-Bromofluorobenzene	98.9	86-115	%REC		1	9/15/2011 2:53:00 PM
Surr: Dibromofluoromethane	99.5	86-118	%REC		1	9/15/2011 2:53:00 PM
Surr: Toluene-d8	96.2	88-110	%REC		1	9/15/2011 2:53:00 PM

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-002
Client Sample ID DST SED 2011-2

Collection Date: 9/13/2011 4:20:00 PM

Matrix: LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, LIQUID						
SEMI-VOLATILE ORGANIC COMPOUNDS						
1,2,4-Trichlorobenzene	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
1,2-Dichlorobenzene	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
1,3-Dichlorobenzene	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
1,4-Dichlorobenzene	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
2,4,5-Trichlorophenol	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
2,4,6-Trichlorophenol	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
2,4-Dichlorophenol	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
2,4-Dimethylphenol	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
2,4-Dinitrophenol	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
2,4-Dinitrotoluene	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
2,6-Dinitrotoluene	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
2-Chloronaphthalene	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
2-Chlorophenol	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
2-Methylnaphthalene	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
2-Methylphenol	ND	0.0200	mg/L	1	9/27/2011 2:52:00 PM	
2-Nitroaniline	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
2-Nitrophenol	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
3&4 Methylphenol	ND	0.0200	mg/L	1	9/27/2011 2:52:00 PM	
3,3'-Dichlorobenzidine	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
3-Nitroaniline	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
4,6-Dinitro-2-methylphenol	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
4-Bromophenyl phenyl ether	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
4-Chloro-3-methylphenol	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
4-Chloroaniline	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
4-Chlorophenyl phenyl ether	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
4-Nitroaniline	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
4-Nitrophenol	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
Acenaphthene	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
Acenaphthylene	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
Anthracene	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
Benz(a)anthracene	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
Benzo(a)pyrene	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
Benzo(b)fluoranthene	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	
Benzo(g,h,i)perylene	ND	0.0100	mg/L	1	9/27/2011 2:52:00 PM	

Qualifiers: *X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-002
Client Sample ID DST SED 2011-2

Collection Date: 9/13/2011 4:20:00 PM

Matrix: LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, LIQUID						
SEMI-VOLATILE ORGANIC COMPOUNDS						
				SW8270C		Analyst: MIM
Benzo(k)fluoranthene	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Benzoic acid	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Benzyl alcohol	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Bis(2-chloroethoxy)methane	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Bis(2-chloroethyl) ether	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Bis(2-chloroisopropyl) ether	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Bis(2-ethylhexyl) phthalate	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Butyl benzyl phthalate	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Chrysene	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Dibenz(a,h)anthracene	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Dibenzofuran	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Diethyl phthalate	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Dimethyl phthalate	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Di-n-butyl phthalate	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Di-n-octyl phthalate	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Fluoranthene	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Fluorene	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Hexachlorobenzene	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Hexachlorobutadiene	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Hexachlorocyclopentadiene	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Hexachloroethane	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Isophorone	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Naphthalene	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Nitrobenzene	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
N-Nitrosodi-n-propylamine	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
N-Nitrosodiphenylamine	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Pentachlorophenol	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Phenanthrene	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Phenol	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Pyrene	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Pyridine	ND	0.0100		mg/L	1	9/27/2011 2:52:00 PM
Surr: 2,4,6-Tribromophenol	66.4	10-123		%REC	1	9/27/2011 2:52:00 PM
Surr: 2-Fluorobiphenyl	45.0	43-116		%REC	1	9/27/2011 2:52:00 PM

Qualifiers: */* Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-002
Client Sample ID DST SED 2011-2

Collection Date: 9/13/2011 4:20:00 PM

Matrix: LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, LIQUID						
SEMI-VOLATILE ORGANIC COMPOUNDS						
				SW8270C		Analyst: MIM
Surr: 2-Fluorophenol	30.3	21-100	%REC		1	9/27/2011 2:52:00 PM
Surr: Nitrobenzene-d5	52.0	35-114	%REC		1	9/27/2011 2:52:00 PM
Surr: Phenol-d6	21.4	10-94	%REC		1	9/27/2011 2:52:00 PM
Surr: Terphenyl-d14	87.6	33-141	%REC		1	9/27/2011 2:52:00 PM
TCL VOC, LIQUID						
VOLATILE ORGANIC COMPOUNDS						
				SW8260B		Analyst: AC
1,1,1-Trichloroethane	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
1,1,2,2-Tetrachloroethane	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
1,1,2-Trichloroethane	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
1,1-Dichloroethane	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
1,1-Dichloroethene	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
1,2-Dichloroethane	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
1,2-Dichloropropane	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
2-Hexanone	ND	0.0100	mg/L		1	9/15/2011 3:17:00 PM
4-Methyl-2-pentanone	ND	0.0200	mg/L		1	9/15/2011 3:17:00 PM
Acetone	ND	0.0500	mg/L		1	9/15/2011 3:17:00 PM
Benzene	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
Bromodichloromethane	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
Bromoform	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
Bromomethane	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
Carbon disulfide	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
Carbon tetrachloride	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
Chlorobenzene	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
Chloroethane	ND	0.0100	mg/L		1	9/15/2011 3:17:00 PM
Chloroform	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
Chloromethane	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
cis-1,2-Dichloroethene	0.00590	0.00500	mg/L		1	9/15/2011 3:17:00 PM
cis-1,3-Dichloropropene	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
Dibromochloromethane	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
Ethylbenzene	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
m,p-Xylene	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
Methyl ethyl ketone	ND	0.0500	mg/L		1	9/15/2011 3:17:00 PM
Methylene chloride	ND	0.0100	mg/L		1	9/15/2011 3:17:00 PM

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp. Collection Date: 9/13/2011 4:20:00 PM
Project: DETREX DS-TRIB.
Lab ID: 1109347-002 Matrix: LIQUID
Client Sample ID DST SED 2011-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL VOC, LIQUID						
VOLATILE ORGANIC COMPOUNDS						
				SW8260B		Analyst: AC
o-Xylene	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
Styrene	ND	0.0200	mg/L		1	9/15/2011 3:17:00 PM
Tetrachloroethene	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
Toluene	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
trans-1,2-Dichloroethene	ND	0.0100	mg/L		1	9/15/2011 3:17:00 PM
trans-1,3-Dichloropropene	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
Trichloroethene	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
Vinyl acetate	ND	0.0100	mg/L		1	9/15/2011 3:17:00 PM
Vinyl chloride	ND	0.00500	mg/L		1	9/15/2011 3:17:00 PM
Surr: 4-Bromofluorobenzene	99.6	86-115	%REC		1	9/15/2011 3:17:00 PM
Surr: Dibromofluoromethane	99.0	86-118	%REC		1	9/15/2011 3:17:00 PM
Surr: Toluene-d8	92.6	88-110	%REC		1	9/15/2011 3:17:00 PM

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-003
Client Sample ID DST SED 2011-3

Collection Date: 9/13/2011 4:45:00 PM

Matrix: LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, LIQUID						
SEMI-VOLATILE ORGANIC COMPOUNDS						
1,2,4-Trichlorobenzene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
1,2-Dichlorobenzene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
1,3-Dichlorobenzene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
1,4-Dichlorobenzene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
2,4,5-Trichlorophenol	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
2,4,6-Trichlorophenol	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
2,4-Dichlorophenol	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
2,4-Dimethylphenol	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
2,4-Dinitrophenol	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
2,4-Dinitrotoluene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
2,6-Dinitrotoluene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
2-Chloronaphthalene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
2-Chlorophenol	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
2-Methylnaphthalene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
2-Methylphenol	ND	0.0200	mg/L	1	9/27/2011 6:39:00 PM	
2-Nitroaniline	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
2-Nitrophenol	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
3&4 Methylphenol	ND	0.0200	mg/L	1	9/27/2011 6:39:00 PM	
3,3'-Dichlorobenzidine	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
3-Nitroaniline	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
4,6-Dinitro-2-methylphenol	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
4-Bromophenyl phenyl ether	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
4-Chloro-3-methylphenol	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
4-Chloroaniline	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
4-Chlorophenyl phenyl ether	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
4-Nitroaniline	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
4-Nitrophenol	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Acenaphthene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Acenaphthylene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Anthracene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Benz(a)anthracene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Benzo(a)pyrene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Benzo(b)fluoranthene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Benzo(g,h,i)perylene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	

Qualifiers: *X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-003
Client Sample ID DST SED 2011-3

Collection Date: 9/13/2011 4:45:00 PM

Matrix: LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, LIQUID						
SEMI-VOLATILE ORGANIC COMPOUNDS						
Benzo(k)fluoranthene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Benzoic acid	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Benzyl alcohol	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Bis(2-chloroethoxy)methane	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Bis(2-chloroethyl) ether	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Bis(2-chloroisopropyl) ether	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Bis(2-ethylhexyl) phthalate	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Butyl benzyl phthalate	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Chrysene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Dibenz(a,h)anthracene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Dibenzofuran	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Diethyl phthalate	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Dimethyl phthalate	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Di-n-butyl phthalate	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Di-n-octyl phthalate	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Fluoranthene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Fluorene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Hexachlorobenzene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Hexachlorobutadiene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Hexachlorocyclopentadiene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Hexachloroethane	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Indeno(1,2,3-cd)pyrene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Isophorone	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Naphthalene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Nitrobenzene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
N-Nitrosodi-n-propylamine	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
N-Nitrosodiphenylamine	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Pentachlorophenol	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Phenanthrene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Phenol	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Pyrene	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Pyridine	ND	0.0100	mg/L	1	9/27/2011 6:39:00 PM	
Surrogate: 2,4,6-Tribromophenol	69.0	10-123	%REC	1	9/27/2011 6:39:00 PM	
Surrogate: 2-Fluorobiphenyl	49.1	43-116	%REC	1	9/27/2011 6:39:00 PM	

Qualifiers: */* Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Website: www.precisionanalytical.com

Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp. **Collection Date:** 9/13/2011 4:45:00 PM
Project: DETREX DS-TRIB. **Matrix:** LIQUID
Lab ID: 1109347-003
Client Sample ID DST SED 2011-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, LIQUID						
SEMI-VOLATILE ORGANIC COMPOUNDS						
Surr: 2-Fluorophenol	35.6	21-100	%REC		1	9/27/2011 6:39:00 PM
Surr: Nitrobenzene-d5	58.6	35-114	%REC		1	9/27/2011 6:39:00 PM
Surr: Phenol-d6	25.3	10-94	%REC		1	9/27/2011 6:39:00 PM
Surr: Terphenyl-d14	93.4	33-141	%REC		1	9/27/2011 6:39:00 PM
TCL VOC, LIQUID						
VOLATILE ORGANIC COMPOUNDS						
1,1,1-Trichloroethane	ND	0.00500	mg/L		1	9/15/2011 3:42:00 PM
1,1,2,2-Tetrachloroethane	ND	0.00500	mg/L		1	9/15/2011 3:42:00 PM
1,1,2-Trichloroethane	ND	0.00500	mg/L		1	9/15/2011 3:42:00 PM
1,1-Dichloroethane	ND	0.00500	mg/L		1	9/15/2011 3:42:00 PM
1,1-Dichloroethene	ND	0.00500	mg/L		1	9/15/2011 3:42:00 PM
1,2-Dichloroethane	ND	0.00500	mg/L		1	9/15/2011 3:42:00 PM
1,2-Dichloropropane	ND	0.00500	mg/L		1	9/15/2011 3:42:00 PM
2-Hexanone	ND	0.0100	mg/L		1	9/15/2011 3:42:00 PM
4-Methyl-2-pentanone	ND	0.0200	mg/L		1	9/15/2011 3:42:00 PM
Acetone	ND	0.0500	mg/L		1	9/15/2011 3:42:00 PM
Benzene	ND	0.00500	mg/L		1	9/15/2011 3:42:00 PM
Bromodichloromethane	ND	0.00500	mg/L		1	9/15/2011 3:42:00 PM
Bromoform	ND	0.00500	mg/L		1	9/15/2011 3:42:00 PM
Bromomethane	ND	0.00500	mg/L		1	9/15/2011 3:42:00 PM
Carbon disulfide	ND	0.00500	mg/L		1	9/15/2011 3:42:00 PM
Carbon tetrachloride	ND	0.00500	mg/L		1	9/15/2011 3:42:00 PM
Chlorobenzene	ND	0.00500	mg/L		1	9/15/2011 3:42:00 PM
Chloroethane	ND	0.0100	mg/L		1	9/15/2011 3:42:00 PM
Chloroform	ND	0.00500	mg/L		1	9/15/2011 3:42:00 PM
Chloromethane	ND	0.00500	mg/L		1	9/15/2011 3:42:00 PM
cis-1,2-Dichloroethene	0.00786	0.00500	mg/L		1	9/15/2011 3:42:00 PM
cis-1,3-Dichloropropene	ND	0.00500	mg/L		1	9/15/2011 3:42:00 PM
Dibromochloromethane	ND	0.00500	mg/L		1	9/15/2011 3:42:00 PM
Ethylbenzene	ND	0.00500	mg/L		1	9/15/2011 3:42:00 PM
m,p-Xylene	ND	0.00500	mg/L		1	9/15/2011 3:42:00 PM
Methyl ethyl ketone	ND	0.0500	mg/L		1	9/15/2011 3:42:00 PM
Methylene chloride	ND	0.0100	mg/L		1	9/15/2011 3:42:00 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Website: www.precisionanalytical.com

Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-003
Client Sample ID DST SED 2011-3

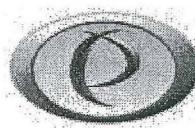
Collection Date: 9/13/2011 4:45:00 PM

Matrix: LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL VOC, LIQUID						
VOLATILE ORGANIC COMPOUNDS						
o-Xylene	ND	0.00500		mg/L	1	9/15/2011 3:42:00 PM
Styrene	ND	0.0200		mg/L	1	9/15/2011 3:42:00 PM
Tetrachloroethene	ND	0.00500		mg/L	1	9/15/2011 3:42:00 PM
Toluene	ND	0.00500		mg/L	1	9/15/2011 3:42:00 PM
trans-1,2-Dichloroethene	ND	0.0100		mg/L	1	9/15/2011 3:42:00 PM
trans-1,3-Dichloropropene	ND	0.00500		mg/L	1	9/15/2011 3:42:00 PM
Trichloroethene	ND	0.00500		mg/L	1	9/15/2011 3:42:00 PM
Vinyl acetate	ND	0.0100		mg/L	1	9/15/2011 3:42:00 PM
Vinyl chloride	ND	0.00500		mg/L	1	9/15/2011 3:42:00 PM
Surr: 4-Bromofluorobenzene	99.8	86-115		%REC	1	9/15/2011 3:42:00 PM
Surr: Dibromofluoromethane	99.1	86-118		%REC	1	9/15/2011 3:42:00 PM
Surr: Toluene-d8	94.3	88-110		%REC	1	9/15/2011 3:42:00 PM

Analyst: AC

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



PRECISION
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Analytical Report

(consolidated)

WO#: **1109347**

Date Reported: **9/29/2011**

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-004
Client Sample ID DST SED 2011-4

Collection Date: 9/13/2011 5:17:00 PM

Matrix: LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, LIQUID						
SEMI-VOLATILE ORGANIC COMPOUNDS						
				SW8270C		Analyst: MIM
1,2,4-Trichlorobenzene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
1,2-Dichlorobenzene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
1,3-Dichlorobenzene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
1,4-Dichlorobenzene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
2,4,5-Trichlorophenol	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
2,4,6-Trichlorophenol	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
2,4-Dichlorophenol	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
2,4-Dimethylphenol	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
2,4-Dinitrophenol	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
2,4-Dinitrotoluene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
2,6-Dinitrotoluene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
2-Chloronaphthalene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
2-Chlorophenol	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
2-Methylnaphthalene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
2-Methylphenol	ND	0.0200		mg/L	1	9/27/2011 4:21:00 PM
2-Nitroaniline	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
2-Nitrophenol	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
3&4 Methylphenol	ND	0.0200		mg/L	1	9/27/2011 4:21:00 PM
3,3'-Dichlorobenzidine	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
3-Nitroaniline	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
4,6-Dinitro-2-methylphenol	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
4-Bromophenyl phenyl ether	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
4-Chloro-3-methylphenol	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
4-Chloroaniline	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
4-Chlorophenyl phenyl ether	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
4-Nitroaniline	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
4-Nitrophenol	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Acenaphthene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Acenaphthylene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Anthracene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Benz(a)anthracene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Benzo(a)pyrene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Benzo(b)fluoranthene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Benzo(g,h,i)perylene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level
- DF Dilution Factor
- J Analyte detected below quantitation limits
- MDL Method Detection Limit
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- N Tentatively identified compounds
- PL Permit Limit
- S Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-004
Client Sample ID DST SED 2011-4

Collection Date: 9/13/2011 5:17:00 PM

Matrix: LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, LIQUID						
SEMI-VOLATILE ORGANIC COMPOUNDS						
				SW8270C		Analyst: MIM
Benzo(k)fluoranthene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Benzoic acid	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Benzyl alcohol	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Bis(2-chloroethoxy)methane	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Bis(2-chloroethyl) ether	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Bis(2-chloroisopropyl) ether	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Bis(2-ethylhexyl) phthalate	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Butyl benzyl phthalate	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Chrysene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Dibenz(a,h)anthracene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Dibenzofuran	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Diethyl phthalate	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Dimethyl phthalate	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Di-n-butyl phthalate	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Di-n-octyl phthalate	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Fluoranthene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Fluorene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Hexachlorobenzene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Hexachlorobutadiene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Hexachlorocyclopentadiene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Hexachloroethane	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Isophorone	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Naphthalene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Nitrobenzene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
N-Nitrosodi-n-propylamine	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
N-Nitrosodiphenylamine	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Pentachlorophenol	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Phenanthrene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Phenol	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Pyrene	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Pyridine	ND	0.0100		mg/L	1	9/27/2011 4:21:00 PM
Surr: 2,4,6-Tribromophenol	67.4	10-123		%REC	1	9/27/2011 4:21:00 PM
Surr: 2-Fluorobiphenyl	54.1	43-116		%REC	1	9/27/2011 4:21:00 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Website: www.precisionanalytical.com

Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp. **Collection Date:** 9/13/2011 5:17:00 PM
Project: DETREX DS-TRIB. **Matrix:** LIQUID
Lab ID: 1109347-004
Client Sample ID DST SED 2011-4

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, LIQUID						
SEMI-VOLATILE ORGANIC COMPOUNDS						
Surr: 2-Fluorophenol	30.4	21-100	%REC		1	9/27/2011 4:21:00 PM
Surr: Nitrobenzene-d5	62.7	35-114	%REC		1	9/27/2011 4:21:00 PM
Surr: Phenol-d6	21.7	10-94	%REC		1	9/27/2011 4:21:00 PM
Surr: Terphenyl-d14	97.9	33-141	%REC		1	9/27/2011 4:21:00 PM
TCL VOC, LIQUID						
VOLATILE ORGANIC COMPOUNDS						
1,1,1-Trichloroethane	ND	0.00500	mg/L		1	9/15/2011 4:06:00 PM
1,1,2,2-Tetrachloroethane	ND	0.00500	mg/L		1	9/15/2011 4:06:00 PM
1,1,2-Trichloroethane	ND	0.00500	mg/L		1	9/15/2011 4:06:00 PM
1,1-Dichloroethane	ND	0.00500	mg/L		1	9/15/2011 4:06:00 PM
1,1-Dichloroethene	ND	0.00500	mg/L		1	9/15/2011 4:06:00 PM
1,2-Dichloroethane	ND	0.00500	mg/L		1	9/15/2011 4:06:00 PM
1,2-Dichloropropane	ND	0.00500	mg/L		1	9/15/2011 4:06:00 PM
2-Hexanone	ND	0.0100	mg/L		1	9/15/2011 4:06:00 PM
4-Methyl-2-pentanone	ND	0.0200	mg/L		1	9/15/2011 4:06:00 PM
Acetone	ND	0.0500	mg/L		1	9/15/2011 4:06:00 PM
Benzene	ND	0.00500	mg/L		1	9/15/2011 4:06:00 PM
Bromodichloromethane	ND	0.00500	mg/L		1	9/15/2011 4:06:00 PM
Bromoform	ND	0.00500	mg/L		1	9/15/2011 4:06:00 PM
Bromomethane	ND	0.00500	mg/L		1	9/15/2011 4:06:00 PM
Carbon disulfide	ND	0.00500	mg/L		1	9/15/2011 4:06:00 PM
Carbon tetrachloride	ND	0.00500	mg/L		1	9/15/2011 4:06:00 PM
Chlorobenzene	ND	0.00500	mg/L		1	9/15/2011 4:06:00 PM
Chloroethane	ND	0.0100	mg/L		1	9/15/2011 4:06:00 PM
Chloroform	ND	0.00500	mg/L		1	9/15/2011 4:06:00 PM
Chloromethane	ND	0.00500	mg/L		1	9/15/2011 4:06:00 PM
cis-1,2-Dichloroethene	0.0117	0.00500	mg/L		1	9/15/2011 4:06:00 PM
cis-1,3-Dichloropropene	ND	0.00500	mg/L		1	9/15/2011 4:06:00 PM
Dibromochloromethane	ND	0.00500	mg/L		1	9/15/2011 4:06:00 PM
Ethylbenzene	ND	0.00500	mg/L		1	9/15/2011 4:06:00 PM
m,p-Xylene	ND	0.00500	mg/L		1	9/15/2011 4:06:00 PM
Methyl ethyl ketone	ND	0.0500	mg/L		1	9/15/2011 4:06:00 PM
Methylene chloride	ND	0.0100	mg/L		1	9/15/2011 4:06:00 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-004
Client Sample ID DST SED 2011-4

Collection Date: 9/13/2011 5:17:00 PM

Matrix: LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL VOC, LIQUID						
VOLATILE ORGANIC COMPOUNDS						
o-Xylene	ND	0.00500		mg/L	1	9/15/2011 4:06:00 PM
Styrene	ND	0.0200		mg/L	1	9/15/2011 4:06:00 PM
Tetrachloroethene	ND	0.00500		mg/L	1	9/15/2011 4:06:00 PM
Toluene	ND	0.00500		mg/L	1	9/15/2011 4:06:00 PM
trans-1,2-Dichloroethene	ND	0.0100		mg/L	1	9/15/2011 4:06:00 PM
trans-1,3-Dichloropropene	ND	0.00500		mg/L	1	9/15/2011 4:06:00 PM
Trichloroethene	0.00553	0.00500		mg/L	1	9/15/2011 4:06:00 PM
Vinyl acetate	ND	0.0100		mg/L	1	9/15/2011 4:06:00 PM
Vinyl chloride	ND	0.00500		mg/L	1	9/15/2011 4:06:00 PM
Surr: 4-Bromofluorobenzene	99.8	86-115		%REC	1	9/15/2011 4:06:00 PM
Surr: Dibromofluoromethane	101	86-118		%REC	1	9/15/2011 4:06:00 PM
Surr: Toluene-d8	95.2	88-110		%REC	1	9/15/2011 4:06:00 PM

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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TEL: 216 663 0808 FAX: 216 663 0656
Website: www.precisionanalytical.com

Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-005
Client Sample ID DST SED 2011-5

Collection Date: 9/13/2011 5:55:00 PM

Matrix: LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, LIQUID						
SEMI-VOLATILE ORGANIC COMPOUNDS						
1,2,4-Trichlorobenzene	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
1,2-Dichlorobenzene	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
1,3-Dichlorobenzene	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
1,4-Dichlorobenzene	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
2,4,5-Trichlorophenol	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
2,4,6-Trichlorophenol	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
2,4-Dichlorophenol	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
2,4-Dimethylphenol	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
2,4-Dinitrophenol	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
2,4-Dinitrotoluene	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
2,6-Dinitrotoluene	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
2-Chloronaphthalene	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
2-Chlorophenol	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
2-Methylnaphthalene	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
2-Methylphenol	ND	0.0200	mg/L	1	9/27/2011 5:08:00 PM	
2-Nitroaniline	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
2-Nitrophenol	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
3&4 Methylphenol	ND	0.0200	mg/L	1	9/27/2011 5:08:00 PM	
3,3'-Dichlorobenzidine	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
3-Nitroaniline	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
4,6-Dinitro-2-methylphenol	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
4-Bromophenyl phenyl ether	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
4-Chloro-3-methylphenol	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
4-Chloroaniline	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
4-Chlorophenyl phenyl ether	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
4-Nitroaniline	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
4-Nitrophenol	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
Acenaphthene	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
Acenaphthylene	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
Anthracene	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
Benz(a)anthracene	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
Benzo(a)pyrene	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
Benzo(b)fluoranthene	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	
Benzo(g,h,i)perylene	ND	0.0100	mg/L	1	9/27/2011 5:08:00 PM	

Qualifiers: *X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-005
Client Sample ID DST SED 2011-5

Collection Date: 9/13/2011 5:55:00 PM

Matrix: LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, LIQUID SEMI-VOLATILE ORGANIC COMPOUNDS						
				SW8270C		Analyst: MIM
Benzo(k)fluoranthene	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Benzoic acid	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Benzyl alcohol	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Bis(2-chloroethoxy)methane	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Bis(2-chloroethyl) ether	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Bis(2-chloroisopropyl) ether	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Bis(2-ethylhexyl) phthalate	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Butyl benzyl phthalate	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Chrysene	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Dibenz(a,h)anthracene	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Dibenzofuran	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Diethyl phthalate	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Dimethyl phthalate	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Di-n-butyl phthalate	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Di-n-octyl phthalate	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Fluoranthene	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Fluorene	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Hexachlorobenzene	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Hexachlorobutadiene	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Hexachlorocyclopentadiene	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Hexachloroethane	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Isophorone	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Naphthalene	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Nitrobenzene	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
N-Nitrosodi-n-propylamine	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
N-Nitrosodiphenylamine	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Pentachlorophenol	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Phenanthrene	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Phenol	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Pyrene	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Pyridine	ND	0.0100		mg/L	1	9/27/2011 5:08:00 PM
Surr: 2,4,6-Tribromophenol	70.3	10-123		%REC	1	9/27/2011 5:08:00 PM
Surr: 2-Fluorobiphenyl	40.5	43-116	S	%REC	1	9/27/2011 5:08:00 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-005
Client Sample ID DST SED 2011-5

Collection Date: 9/13/2011 5:55:00 PM

Matrix: LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, LIQUID						
SEMI-VOLATILE ORGANIC COMPOUNDS						
				SW8270C		Analyst: MIM
Surr: 2-Fluorophenol	30.4	21-100	%REC		1	9/27/2011 5:08:00 PM
Surr: Nitrobenzene-d5	49.1	35-114	%REC		1	9/27/2011 5:08:00 PM
Surr: Phenol-d6	21.4	10-94	%REC		1	9/27/2011 5:08:00 PM
Surr: Terphenyl-d14	91.2	33-141	%REC		1	9/27/2011 5:08:00 PM
TCL VOC, LIQUID						
VOLATILE ORGANIC COMPOUNDS						
				SW8260B		Analyst: AC
1,1,1-Trichloroethane	ND	0.00500	mg/L		1	9/15/2011 4:31:00 PM
1,1,2,2-Tetrachloroethane	ND	0.00500	mg/L		1	9/15/2011 4:31:00 PM
1,1,2-Trichloroethane	ND	0.00500	mg/L		1	9/15/2011 4:31:00 PM
1,1-Dichloroethane	ND	0.00500	mg/L		1	9/15/2011 4:31:00 PM
1,1-Dichloroethene	ND	0.00500	mg/L		1	9/15/2011 4:31:00 PM
1,2-Dichloroethane	ND	0.00500	mg/L		1	9/15/2011 4:31:00 PM
1,2-Dichloropropane	ND	0.00500	mg/L		1	9/15/2011 4:31:00 PM
2-Hexanone	ND	0.0100	mg/L		1	9/15/2011 4:31:00 PM
4-Methyl-2-pentanone	ND	0.0200	mg/L		1	9/15/2011 4:31:00 PM
Acetone	ND	0.0500	mg/L		1	9/15/2011 4:31:00 PM
Benzene	ND	0.00500	mg/L		1	9/15/2011 4:31:00 PM
Bromodichloromethane	ND	0.00500	mg/L		1	9/15/2011 4:31:00 PM
Bromoform	ND	0.00500	mg/L		1	9/15/2011 4:31:00 PM
Bromomethane	ND	0.00500	mg/L		1	9/15/2011 4:31:00 PM
Carbon disulfide	ND	0.00500	mg/L		1	9/15/2011 4:31:00 PM
Carbon tetrachloride	ND	0.00500	mg/L		1	9/15/2011 4:31:00 PM
Chlorobenzene	ND	0.00500	mg/L		1	9/15/2011 4:31:00 PM
Chloroethane	ND	0.0100	mg/L		1	9/15/2011 4:31:00 PM
Chloroform	ND	0.00500	mg/L		1	9/15/2011 4:31:00 PM
Chloromethane	ND	0.00500	mg/L		1	9/15/2011 4:31:00 PM
cis-1,2-Dichloroethene	0.0183	0.00500	mg/L		1	9/15/2011 4:31:00 PM
cis-1,3-Dichloropropene	ND	0.00500	mg/L		1	9/15/2011 4:31:00 PM
Dibromochloromethane	ND	0.00500	mg/L		1	9/15/2011 4:31:00 PM
Ethylbenzene	ND	0.00500	mg/L		1	9/15/2011 4:31:00 PM
m,p-Xylene	ND	0.00500	mg/L		1	9/15/2011 4:31:00 PM
Methyl ethyl ketone	ND	0.0500	mg/L		1	9/15/2011 4:31:00 PM
Methylene chloride	ND	0.0100	mg/L		1	9/15/2011 4:31:00 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-005
Client Sample ID DST SED 2011-5

Collection Date: 9/13/2011 5:55:00 PM

Matrix: LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL VOC, LIQUID						
VOLATILE ORGANIC COMPOUNDS						
				SW8260B		Analyst: AC
o-Xylene	ND	0.00500		mg/L	1	9/15/2011 4:31:00 PM
Styrene	ND	0.0200		mg/L	1	9/15/2011 4:31:00 PM
Tetrachloroethene	ND	0.00500		mg/L	1	9/15/2011 4:31:00 PM
Toluene	ND	0.00500		mg/L	1	9/15/2011 4:31:00 PM
trans-1,2-Dichloroethene	ND	0.0100		mg/L	1	9/15/2011 4:31:00 PM
trans-1,3-Dichloropropene	ND	0.00500		mg/L	1	9/15/2011 4:31:00 PM
Trichloroethene	0.00513	0.00500		mg/L	1	9/15/2011 4:31:00 PM
Vinyl acetate	ND	0.0100		mg/L	1	9/15/2011 4:31:00 PM
Vinyl chloride	ND	0.00500		mg/L	1	9/15/2011 4:31:00 PM
Surr: 4-Bromofluorobenzene	103	86-115		%REC	1	9/15/2011 4:31:00 PM
Surr: Dibromofluoromethane	106	86-118		%REC	1	9/15/2011 4:31:00 PM
Surr: Toluene-d8	94.4	88-110		%REC	1	9/15/2011 4:31:00 PM

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-006
Client Sample ID DST SED 2011-7

Collection Date: 9/13/2011 6:56:00 PM

Matrix: LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, LIQUID SEMI-VOLATILE ORGANIC COMPOUNDS					SW8270C	Analyst: MIM
1,2,4-Trichlorobenzene	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
1,2-Dichlorobenzene	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
1,3-Dichlorobenzene	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
1,4-Dichlorobenzene	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
2,4,5-Trichlorophenol	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
2,4,6-Trichlorophenol	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
2,4-Dichlorophenol	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
2,4-Dimethylphenol	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
2,4-Dinitrophenol	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
2,4-Dinitrotoluene	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
2,6-Dinitrotoluene	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
2-Chloronaphthalene	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
2-Chlorophenol	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
2-Methylnaphthalene	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
2-Methylphenol	ND	0.0200	mg/L	1	9/27/2011 5:54:00 PM	
2-Nitroaniline	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
2-Nitrophenol	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
3&4 Methylphenol	ND	0.0200	mg/L	1	9/27/2011 5:54:00 PM	
3,3'-Dichlorobenzidine	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
3-Nitroaniline	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
4,6-Dinitro-2-methylphenol	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
4-Bromophenyl phenyl ether	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
4-Chloro-3-methylphenol	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
4-Chloroaniline	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
4-Chlorophenyl phenyl ether	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
4-Nitroaniline	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
4-Nitrophenol	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
Acenaphthene	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
Acenaphthylene	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
Anthracene	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
Benz(a)anthracene	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
Benzo(a)pyrene	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
Benzo(b)fluoranthene	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	
Benzo(g,h,i)perylene	ND	0.0100	mg/L	1	9/27/2011 5:54:00 PM	

Qualifiers: *X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-006
Client Sample ID DST SED 2011-7

Collection Date: 9/13/2011 6:56:00 PM

Matrix: LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, LIQUID SEMI-VOLATILE ORGANIC COMPOUNDS						
				SW8270C		Analyst: MIM
Benzo(k)fluoranthene	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Benzoic acid	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Benzyl alcohol	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Bis(2-chloroethoxy)methane	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Bis(2-chloroethyl) ether	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Bis(2-chloroisopropyl) ether	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Bis(2-ethylhexyl) phthalate	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Butyl benzyl phthalate	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Chrysene	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Dibenz(a,h)anthracene	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Dibenzofuran	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Diethyl phthalate	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Dimethyl phthalate	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Di-n-butyl phthalate	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Di-n-octyl phthalate	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Fluoranthene	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Fluorene	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Hexachlorobenzene	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Hexachlorobutadiene	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Hexachlorocyclopentadiene	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Hexachloroethane	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Isophorone	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Naphthalene	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Nitrobenzene	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
N-Nitrosodi-n-propylamine	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
N-Nitrosodiphenylamine	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Pentachlorophenol	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Phenanthrene	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Phenol	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Pyrene	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Pyridine	ND	0.0100		mg/L	1	9/27/2011 5:54:00 PM
Surr: 2,4,6-Tribromophenol	62.5	10-123		%REC	1	9/27/2011 5:54:00 PM
Surr: 2-Fluorobiphenyl	47.7	43-116		%REC	1	9/27/2011 5:54:00 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



Precision Analytical, Inc.
4450 Johnston Parkway Unit B
Cleveland, OH 44128
TEL: 216 663 0808 FAX: 216 663 0656
Website: www.precisionanalytical.com

Analytical Report

(consolidated)

WO#: 1109347

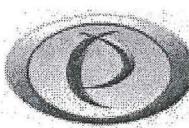
Date Reported: 9/29/2011

CLIENT: URS Corp. **Collection Date:** 9/13/2011 6:56:00 PM
Project: DETREX DS-TRIB. **Matrix:** LIQUID
Lab ID: 1109347-006
Client Sample ID DST SED 2011-7

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, LIQUID						
SEMI-VOLATILE ORGANIC COMPOUNDS						
Surr: 2-Fluorophenol	27.1	21-100	%REC		1	9/27/2011 5:54:00 PM
Surr: Nitrobenzene-d5	53.1	35-114	%REC		1	9/27/2011 5:54:00 PM
Surr: Phenol-d6	20.4	10-94	%REC		1	9/27/2011 5:54:00 PM
Surr: Terphenyl-d14	81.0	33-141	%REC		1	9/27/2011 5:54:00 PM
TCL VOC, LIQUID						
VOLATILE ORGANIC COMPOUNDS						
1,1,1-Trichloroethane	ND	0.00500	mg/L		1	9/15/2011 4:55:00 PM
1,1,2,2-Tetrachloroethane	ND	0.00500	mg/L		1	9/15/2011 4:55:00 PM
1,1,2-Trichloroethane	ND	0.00500	mg/L		1	9/15/2011 4:55:00 PM
1,1-Dichloroethane	ND	0.00500	mg/L		1	9/15/2011 4:55:00 PM
1,1-Dichloroethene	ND	0.00500	mg/L		1	9/15/2011 4:55:00 PM
1,2-Dichloroethane	ND	0.00500	mg/L		1	9/15/2011 4:55:00 PM
1,2-Dichloropropane	ND	0.00500	mg/L		1	9/15/2011 4:55:00 PM
2-Hexanone	ND	0.0100	mg/L		1	9/15/2011 4:55:00 PM
4-Methyl-2-pentanone	ND	0.0200	mg/L		1	9/15/2011 4:55:00 PM
Acetone	ND	0.0500	mg/L		1	9/15/2011 4:55:00 PM
Benzene	ND	0.00500	mg/L		1	9/15/2011 4:55:00 PM
Bromodichloromethane	ND	0.00500	mg/L		1	9/15/2011 4:55:00 PM
Bromoform	ND	0.00500	mg/L		1	9/15/2011 4:55:00 PM
Bromomethane	ND	0.00500	mg/L		1	9/15/2011 4:55:00 PM
Carbon disulfide	ND	0.00500	mg/L		1	9/15/2011 4:55:00 PM
Carbon tetrachloride	ND	0.00500	mg/L		1	9/15/2011 4:55:00 PM
Chlorobenzene	ND	0.00500	mg/L		1	9/15/2011 4:55:00 PM
Chloroethane	ND	0.0100	mg/L		1	9/15/2011 4:55:00 PM
Chloroform	ND	0.00500	mg/L		1	9/15/2011 4:55:00 PM
Chloromethane	ND	0.00500	mg/L		1	9/15/2011 4:55:00 PM
cis-1,2-Dichloroethene	0.0156	0.00500	mg/L		1	9/15/2011 4:55:00 PM
cis-1,3-Dichloropropene	ND	0.00500	mg/L		1	9/15/2011 4:55:00 PM
Dibromochloromethane	ND	0.00500	mg/L		1	9/15/2011 4:55:00 PM
Ethylbenzene	ND	0.00500	mg/L		1	9/15/2011 4:55:00 PM
m,p-Xylene	ND	0.00500	mg/L		1	9/15/2011 4:55:00 PM
Methyl ethyl ketone	ND	0.0500	mg/L		1	9/15/2011 4:55:00 PM
Methylene chloride	ND	0.0100	mg/L		1	9/15/2011 4:55:00 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-006
Client Sample ID DST SED 2011-7

Collection Date: 9/13/2011 6:56:00 PM

Matrix: LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL VOC, LIQUID						
VOLATILE ORGANIC COMPOUNDS						
				SW8260B		Analyst: AC
o-Xylene	ND	0.00500		mg/L	1	9/15/2011 4:55:00 PM
Styrene	ND	0.0200		mg/L	1	9/15/2011 4:55:00 PM
Tetrachloroethene	ND	0.00500		mg/L	1	9/15/2011 4:55:00 PM
Toluene	ND	0.00500		mg/L	1	9/15/2011 4:55:00 PM
trans-1,2-Dichloroethene	ND	0.0100		mg/L	1	9/15/2011 4:55:00 PM
trans-1,3-Dichloropropene	ND	0.00500		mg/L	1	9/15/2011 4:55:00 PM
Trichloroethene	0.0204	0.00500		mg/L	1	9/15/2011 4:55:00 PM
Vinyl acetate	ND	0.0100		mg/L	1	9/15/2011 4:55:00 PM
Vinyl chloride	ND	0.00500		mg/L	1	9/15/2011 4:55:00 PM
Surr: 4-Bromofluorobenzene	101	86-115		%REC	1	9/15/2011 4:55:00 PM
Surr: Dibromofluoromethane	104	86-118		%REC	1	9/15/2011 4:55:00 PM
Surr: Toluene-d8	90.8	88-110		%REC	1	9/15/2011 4:55:00 PM

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-007
Client Sample ID Trip Blank

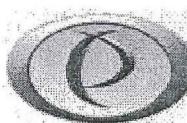
Collection Date: 9/13/2011

Matrix: LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL VOC, LIQUID						
VOLATILE ORGANIC COMPOUNDS						
1,1,1-Trichloroethane	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
1,1,2,2-Tetrachloroethane	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
1,1,2-Trichloroethane	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
1,1-Dichloroethane	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
1,1-Dichloroethene	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
1,2-Dichloroethane	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
1,2-Dichloropropane	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
2-Hexanone	ND	0.0100	mg/L	1	9/15/2011 2:29:00 PM	
4-Methyl-2-pentanone	ND	0.0200	mg/L	1	9/15/2011 2:29:00 PM	
Acetone	ND	0.0500	mg/L	1	9/15/2011 2:29:00 PM	
Benzene	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
Bromodichloromethane	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
Bromoform	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
Bromomethane	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
Carbon disulfide	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
Carbon tetrachloride	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
Chlorobenzene	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
Chloroethane	ND	0.0100	mg/L	1	9/15/2011 2:29:00 PM	
Chloroform	0.00793	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
Chloromethane	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
cis-1,2-Dichloroethene	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
cis-1,3-Dichloropropene	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
Dibromochloromethane	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
Ethylbenzene	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
m,p-Xylene	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
Methyl ethyl ketone	ND	0.0500	mg/L	1	9/15/2011 2:29:00 PM	
Methylene chloride	ND	0.0100	mg/L	1	9/15/2011 2:29:00 PM	
o-Xylene	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
Styrene	ND	0.0200	mg/L	1	9/15/2011 2:29:00 PM	
Tetrachloroethene	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
Toluene	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
trans-1,2-Dichloroethene	ND	0.0100	mg/L	1	9/15/2011 2:29:00 PM	
trans-1,3-Dichloropropene	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	
Trichloroethene	ND	0.00500	mg/L	1	9/15/2011 2:29:00 PM	

Qualifiers: *X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-007
Client Sample ID Trip Blank

Collection Date: 9/13/2011

Matrix: LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL VOC, LIQUID						
VOLATILE ORGANIC COMPOUNDS						
Vinyl acetate	ND	0.0100		mg/L	1	9/15/2011 2:29:00 PM
Vinyl chloride	ND	0.00500		mg/L	1	9/15/2011 2:29:00 PM
Surr: 4-Bromofluorobenzene	101	86-115		%REC	1	9/15/2011 2:29:00 PM
Surr: Dibromofluoromethane	97.6	86-118		%REC	1	9/15/2011 2:29:00 PM
Surr: Toluene-d8	97.6	88-110		%REC	1	9/15/2011 2:29:00 PM

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report
(consolidated)
WO#: 1109347
Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-008
Client Sample ID DST SED 2011-1

Collection Date: 9/13/2011 4:05:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS						
1,2,4-Trichlorobenzene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
1,2-Dichlorobenzene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
1,3-Dichlorobenzene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
1,4-Dichlorobenzene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
2,4,5-Trichlorophenol	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
2,4,6-Trichlorophenol	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
2,4-Dichlorophenol	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
2,4-Dimethylphenol	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
2,4-Dinitrophenol	ND	1.79		mg/Kg	1	9/28/2011 3:37:00 PM
2,4-Dinitrotoluene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
2,6-Dinitrotoluene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
2-Chloronaphthalene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
2-Chlorophenol	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
2-Methylnaphthalene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
2-Methylphenol	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
2-Nitroaniline	ND	1.79		mg/Kg	1	9/28/2011 3:37:00 PM
2-Nitrophenol	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
3&4 Methylphenol	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
3,3'-Dichlorobenzidine	ND	0.694		mg/Kg	1	9/28/2011 3:37:00 PM
3-Nitroaniline	ND	1.79		mg/Kg	1	9/28/2011 3:37:00 PM
4,6-Dinitro-2-methylphenol	ND	1.79		mg/Kg	1	9/28/2011 3:37:00 PM
4-Bromophenyl phenyl ether	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
4-Chloro-3-methylphenol	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
4-Chloroaniline	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
4-Chlorophenyl phenyl ether	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
4-Nitroaniline	ND	0.694		mg/Kg	1	9/28/2011 3:37:00 PM
4-Nitrophenol	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Acenaphthene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Acenaphthylene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Anthracene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Benzo (a) anthracene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Benzo(a)pyrene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Benzo(b)fluoranthene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Benzo(g,h,i)perylene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-008
Client Sample ID DST SED 2011-1

Collection Date: 9/13/2011 4:05:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS						
				SW8270C		Analyst: MIM
Benzo(k)fluoranthene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Benzoic acid	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Benzyl alcohol	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Bis(2-chloroethoxy)methane	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Bis(2-chloroethyl) ether	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Bis(2-chloroisopropyl) ether	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Bis(2-ethylhexyl) phthalate	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Butyl benzyl phthalate	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Chrysene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Dibenz(a,h)anthracene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Dibenzofuran	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Diethyl phthalate	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Dimethyl phthalate	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Di-n-butyl phthalate	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Di-n-octyl phthalate	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Fluoranthene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Fluorene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Hexachlorobenzene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Hexachlorobutadiene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Hexachlorocyclopentadiene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Hexachloroethane	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Isophorone	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Naphthalene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Nitrobenzene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
N-Nitrosodi-n-propylamine	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
N-Nitrosodiphenylamine	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Pentachlorophenol	ND	1.79		mg/Kg	1	9/28/2011 3:37:00 PM
Phenanthrene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Phenol	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Pyrene	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Pyridine	ND	0.347		mg/Kg	1	9/28/2011 3:37:00 PM
Surr: 2,4,6-Tribromophenol	85.2	19-122		%REC	1	9/28/2011 3:37:00 PM
Surr: 2-Fluorobiphenyl	0.0200	30-115	S	%REC	1	9/28/2011 3:37:00 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
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Analytical Report
(consolidated)
WO#: 1109347
Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-008
Client Sample ID DST SED 2011-1

Collection Date: 9/13/2011 4:05:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS						
Surr: 2-Fluorophenol	56.7	25-121	%REC		1	9/28/2011 3:37:00 PM
Surr: Nitrobenzene-d5	49.3	23-120	%REC		1	9/28/2011 3:37:00 PM
Surr: Phenol-d6	65.1	24-113	%REC		1	9/28/2011 3:37:00 PM
Surr: Terphenyl-d14	94.6	18-137	%REC		1	9/28/2011 3:37:00 PM
TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS						
1,1,1-Trichloroethane	ND	0.0214	mg/Kg		4.27	9/20/2011 12:04:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0214	mg/Kg		4.27	9/20/2011 12:04:00 PM
1,1,2-Trichloroethane	ND	0.0214	mg/Kg		4.27	9/20/2011 12:04:00 PM
1,1-Dichloroethane	ND	0.0214	mg/Kg		4.27	9/20/2011 12:04:00 PM
1,1-Dichloroethene	ND	0.0214	mg/Kg		4.27	9/20/2011 12:04:00 PM
1,2-Dichloroethane	ND	0.0214	mg/Kg		4.27	9/20/2011 12:04:00 PM
1,2-Dichloropropane	ND	0.0214	mg/Kg		4.27	9/20/2011 12:04:00 PM
2-Hexanone	ND	0.427	mg/Kg		4.27	9/20/2011 12:04:00 PM
4-Methyl-2-pentanone	ND	0.0854	mg/Kg		4.27	9/20/2011 12:04:00 PM
Acetone	ND	0.427	mg/Kg		4.27	9/20/2011 12:04:00 PM
Benzene	ND	0.0214	mg/Kg		4.27	9/20/2011 12:04:00 PM
Bromodichloromethane	ND	0.0214	mg/Kg		4.27	9/20/2011 12:04:00 PM
Bromoform	ND	0.0214	mg/Kg		4.27	9/20/2011 12:04:00 PM
Bromomethane	ND	0.0214	mg/Kg		4.27	9/20/2011 12:04:00 PM
Carbon disulfide	ND	0.0214	mg/Kg		4.27	9/20/2011 12:04:00 PM
Carbon tetrachloride	ND	0.0214	mg/Kg		4.27	9/20/2011 12:04:00 PM
Chlorobenzene	ND	0.0214	mg/Kg		4.27	9/20/2011 12:04:00 PM
Chloroethane	ND	0.0214	mg/Kg		4.27	9/20/2011 12:04:00 PM
Chloroform	ND	0.0214	mg/Kg		4.27	9/20/2011 12:04:00 PM
Chloromethane	ND	0.0427	mg/Kg		4.27	9/20/2011 12:04:00 PM
cis-1,2-Dichloroethene	ND	0.0214	mg/Kg		4.27	9/20/2011 12:04:00 PM
cis-1,3-Dichloropropene	ND	0.0214	mg/Kg		4.27	9/20/2011 12:04:00 PM
Dibromochloromethane	ND	0.0214	mg/Kg		4.27	9/20/2011 12:04:00 PM
Ethylbenzene	ND	0.0214	mg/Kg		4.27	9/20/2011 12:04:00 PM
m,p-Xylene	ND	0.0427	mg/Kg		4.27	9/20/2011 12:04:00 PM
Methyl ethyl ketone	ND	0.0854	mg/Kg		4.27	9/20/2011 12:04:00 PM
Methylene chloride	ND	0.0854	mg/Kg		4.27	9/20/2011 12:04:00 PM

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



Precision Analytical, Inc.
4450 Johnston Parkway Unit B
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TEL: 216 663 0808 FAX: 216 663 0656
Website: www.precisionanalytical.com

Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-008
Client Sample ID DST SED 2011-1

Collection Date: 9/13/2011 4:05:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS						
o-Xylene	ND	0.0214		mg/Kg	4.27	9/20/2011 12:04:00 PM
Styrene	ND	0.0214		mg/Kg	4.27	9/20/2011 12:04:00 PM
Tetrachloroethene	ND	0.0214		mg/Kg	4.27	9/20/2011 12:04:00 PM
Toluene	ND	0.0214		mg/Kg	4.27	9/20/2011 12:04:00 PM
trans-1,2-Dichloroethene	ND	0.0214		mg/Kg	4.27	9/20/2011 12:04:00 PM
trans-1,3-Dichloropropene	ND	0.0214		mg/Kg	4.27	9/20/2011 12:04:00 PM
Trichloroethene	ND	0.0214		mg/Kg	4.27	9/20/2011 12:04:00 PM
Vinyl acetate	ND	0.0427		mg/Kg	4.27	9/20/2011 12:04:00 PM
Vinyl chloride	ND	0.0214		mg/Kg	4.27	9/20/2011 12:04:00 PM
Surr: 4-Bromofluorobenzene	85.7	74-121		%REC	4.27	9/20/2011 12:04:00 PM
Surr: Dibromofluoromethane	104	80-120		%REC	4.27	9/20/2011 12:04:00 PM
Surr: Toluene-d8	103	81-117		%REC	4.27	9/20/2011 12:04:00 PM

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report
(consolidated)
WO#: 1109347
Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-009
Client Sample ID DST SED 2011-2

Collection Date: 9/13/2011 4:30:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS						
1,2,4-Trichlorobenzene	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
1,2-Dichlorobenzene	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
1,3-Dichlorobenzene	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
1,4-Dichlorobenzene	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
2,4,5-Trichlorophenol	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
2,4,6-Trichlorophenol	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
2,4-Dichlorophenol	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
2,4-Dimethylphenol	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
2,4-Dinitrophenol	ND	1.66	mg/Kg	1	9/28/2011 5:52:00 PM	
2,4-Dinitrotoluene	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
2,6-Dinitrotoluene	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
2-Chloronaphthalene	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
2-Chlorophenol	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
2-Methylnaphthalene	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
2-Methylphenol	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
2-Nitroaniline	ND	1.66	mg/Kg	1	9/28/2011 5:52:00 PM	
2-Nitrophenol	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
3&4 Methylphenol	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
3,3'-Dichlorobenzidine	ND	0.645	mg/Kg	1	9/28/2011 5:52:00 PM	
3-Nitroaniline	ND	1.66	mg/Kg	1	9/28/2011 5:52:00 PM	
4,6-Dinitro-2-methylphenol	ND	1.66	mg/Kg	1	9/28/2011 5:52:00 PM	
4-Bromophenyl phenyl ether	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
4-Chloro-3-methylphenol	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
4-Chloroaniline	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
4-Chlorophenyl phenyl ether	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
4-Nitroaniline	ND	0.645	mg/Kg	1	9/28/2011 5:52:00 PM	
4-Nitrophenol	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
Acenaphthene	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
Acenaphthylene	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
Anthracene	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
Benzo (a) anthracene	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
Benzo(a)pyrene	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
Benzo(b)fluoranthene	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	
Benzo(g,h,i)perylene	ND	0.323	mg/Kg	1	9/28/2011 5:52:00 PM	

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-009
Client Sample ID DST SED 2011-2

Collection Date: 9/13/2011 4:30:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS						
				SW8270C		Analyst: MIM
Benzo(k)fluoranthene	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Benzoic acid	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Benzyl alcohol	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Bis(2-chloroethoxy)methane	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Bis(2-chloroethyl) ether	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Bis(2-chloroisopropyl) ether	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Bis(2-ethylhexyl) phthalate	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Butyl benzyl phthalate	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Chrysene	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Dibenz(a,h)anthracene	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Dibenzofuran	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Diethyl phthalate	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Dimethyl phthalate	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Di-n-butyl phthalate	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Di-n-octyl phthalate	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Fluoranthene	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Fluorene	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Hexachlorobenzene	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Hexachlorobutadiene	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Hexachlorocyclopentadiene	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Hexachloroethane	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Isophorone	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Naphthalene	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Nitrobenzene	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
N-Nitrosodi-n-propylamine	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
N-Nitrosodiphenylamine	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Pentachlorophenol	ND	1.66		mg/Kg	1	9/28/2011 5:52:00 PM
Phenanthrene	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Phenol	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Pyrene	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Pyridine	ND	0.323		mg/Kg	1	9/28/2011 5:52:00 PM
Surr: 2,4,6-Tribromophenol	78.0	19-122		%REC	1	9/28/2011 5:52:00 PM
Surr: 2-Fluorobiphenyl	71.9	30-115		%REC	1	9/28/2011 5:52:00 PM

Qualifiers: */* Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-009
Client Sample ID DST SED 2011-2

Collection Date: 9/13/2011 4:30:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS						
Surr: 2-Fluorophenol	67.4	25-121	%REC		1	9/28/2011 5:52:00 PM
Surr: Nitrobenzene-d5	62.5	23-120	%REC		1	9/28/2011 5:52:00 PM
Surr: Phenol-d6	72.2	24-113	%REC		1	9/28/2011 5:52:00 PM
Surr: Terphenyl-d14	97.3	18-137	%REC		1	9/28/2011 5:52:00 PM
TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS						
1,1,1-Trichloroethane	ND	0.0104	mg/Kg		2.07	9/20/2011 12:50:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0104	mg/Kg		2.07	9/20/2011 12:50:00 PM
1,1,2-Trichloroethane	ND	0.0104	mg/Kg		2.07	9/20/2011 12:50:00 PM
1,1-Dichloroethane	ND	0.0104	mg/Kg		2.07	9/20/2011 12:50:00 PM
1,1-Dichloroethene	ND	0.0104	mg/Kg		2.07	9/20/2011 12:50:00 PM
1,2-Dichloroethane	ND	0.0104	mg/Kg		2.07	9/20/2011 12:50:00 PM
1,2-Dichloropropane	ND	0.0104	mg/Kg		2.07	9/20/2011 12:50:00 PM
2-Hexanone	ND	0.207	mg/Kg		2.07	9/20/2011 12:50:00 PM
4-Methyl-2-pentanone	ND	0.0414	mg/Kg		2.07	9/20/2011 12:50:00 PM
Acetone	ND	0.207	mg/Kg		2.07	9/20/2011 12:50:00 PM
Benzene	ND	0.0104	mg/Kg		2.07	9/20/2011 12:50:00 PM
Bromodichloromethane	ND	0.0104	mg/Kg		2.07	9/20/2011 12:50:00 PM
Bromoform	ND	0.0104	mg/Kg		2.07	9/20/2011 12:50:00 PM
Bromomethane	ND	0.0104	mg/Kg		2.07	9/20/2011 12:50:00 PM
Carbon disulfide	ND	0.0104	mg/Kg		2.07	9/20/2011 12:50:00 PM
Carbon tetrachloride	ND	0.0104	mg/Kg		2.07	9/20/2011 12:50:00 PM
Chlorobenzene	ND	0.0104	mg/Kg		2.07	9/20/2011 12:50:00 PM
Chloroethane	ND	0.0104	mg/Kg		2.07	9/20/2011 12:50:00 PM
Chloroform	ND	0.0104	mg/Kg		2.07	9/20/2011 12:50:00 PM
Chloromethane	ND	0.0207	mg/Kg		2.07	9/20/2011 12:50:00 PM
cis-1,2-Dichloroethene	0.0205	0.0104	mg/Kg		2.07	9/20/2011 12:50:00 PM
cis-1,3-Dichloropropene	ND	0.0104	mg/Kg		2.07	9/20/2011 12:50:00 PM
Dibromochloromethane	ND	0.0104	mg/Kg		2.07	9/20/2011 12:50:00 PM
Ethylbenzene	ND	0.0104	mg/Kg		2.07	9/20/2011 12:50:00 PM
m,p-Xylene	ND	0.0207	mg/Kg		2.07	9/20/2011 12:50:00 PM
Methyl ethyl ketone	ND	0.0414	mg/Kg		2.07	9/20/2011 12:50:00 PM
Methylene chloride	ND	0.0414	mg/Kg		2.07	9/20/2011 12:50:00 PM

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-009
Client Sample ID DST SED 2011-2

Collection Date: 9/13/2011 4:30:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS						
o-Xylene	ND	0.0104		mg/Kg	2.07	9/20/2011 12:50:00 PM
Styrene	ND	0.0104		mg/Kg	2.07	9/20/2011 12:50:00 PM
Tetrachloroethene	ND	0.0104		mg/Kg	2.07	9/20/2011 12:50:00 PM
Toluene	ND	0.0104		mg/Kg	2.07	9/20/2011 12:50:00 PM
trans-1,2-Dichloroethene	ND	0.0104		mg/Kg	2.07	9/20/2011 12:50:00 PM
trans-1,3-Dichloropropene	ND	0.0104		mg/Kg	2.07	9/20/2011 12:50:00 PM
Trichloroethene	0.0164	0.0104		mg/Kg	2.07	9/20/2011 12:50:00 PM
Vinyl acetate	ND	0.0207		mg/Kg	2.07	9/20/2011 12:50:00 PM
Vinyl chloride	ND	0.0104		mg/Kg	2.07	9/20/2011 12:50:00 PM
Surr: 4-Bromofluorobenzene	94.4	74-121		%REC	2.07	9/20/2011 12:50:00 PM
Surr: Dibromofluoromethane	100	80-120		%REC	2.07	9/20/2011 12:50:00 PM
Surr: Toluene-d8	96.0	81-117		%REC	2.07	9/20/2011 12:50:00 PM

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-010
Client Sample ID DST SED 2011-3

Collection Date: 9/13/2011 5:00:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS						
1,2,4-Trichlorobenzene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
1,2-Dichlorobenzene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
1,3-Dichlorobenzene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
1,4-Dichlorobenzene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
2,4,5-Trichlorophenol	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
2,4,6-Trichlorophenol	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
2,4-Dichlorophenol	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
2,4-Dimethylphenol	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
2,4-Dinitrophenol	ND	1.71	mg/Kg	1	9/28/2011 6:38:00 PM	
2,4-Dinitrotoluene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
2,6-Dinitrotoluene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
2-Chloronaphthalene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
2-Chlorophenol	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
2-Methylnaphthalene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
2-Methylphenol	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
2-Nitroaniline	ND	1.71	mg/Kg	1	9/28/2011 6:38:00 PM	
2-Nitrophenol	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
3&4 Methylphenol	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
3,3'-Dichlorobenzidine	ND	0.664	mg/Kg	1	9/28/2011 6:38:00 PM	
3-Nitroaniline	ND	1.71	mg/Kg	1	9/28/2011 6:38:00 PM	
4,6-Dinitro-2-methylphenol	ND	1.71	mg/Kg	1	9/28/2011 6:38:00 PM	
4-Bromophenyl phenyl ether	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
4-Chloro-3-methylphenol	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
4-Chloroaniline	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
4-Chlorophenyl phenyl ether	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
4-Nitroaniline	ND	0.664	mg/Kg	1	9/28/2011 6:38:00 PM	
4-Nitrophenol	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Acenaphthene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Acenaphthylene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Anthracene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Benzo (a) anthracene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Benzo(a)pyrene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Benzo(b)fluoranthene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Benzo(g,h,i)perylene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	

Qualifiers: *X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



Precision Analytical, Inc.
4450 Johnston Parkway Unit B
Cleveland, OH 44128
TEL: 216 663 0808 FAX: 216 663 0656
Website: www.precisionanalytical.com

Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-010
Client Sample ID DST SED 2011-3

Collection Date: 9/13/2011 5:00:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS						
Benzo(k)fluoranthene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Benzoic acid	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Benzyl alcohol	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Bis(2-chloroethoxy)methane	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Bis(2-chloroethyl) ether	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Bis(2-chloroisopropyl) ether	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Bis(2-ethylhexyl) phthalate	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Butyl benzyl phthalate	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Chrysene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Dibenz(a,h)anthracene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Dibenzofuran	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Diethyl phthalate	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Dimethyl phthalate	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Di-n-butyl phthalate	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Di-n-octyl phthalate	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Fluoranthene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Fluorene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Hexachlorobenzene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Hexachlorobutadiene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Hexachlorocyclopentadiene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Hexachloroethane	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Indeno(1,2,3-cd)pyrene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Isophorone	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Naphthalene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Nitrobenzene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
N-Nitrosodi-n-propylamine	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
N-Nitrosodiphenylamine	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Pentachlorophenol	ND	1.71	mg/Kg	1	9/28/2011 6:38:00 PM	
Phenanthrene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Phenol	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Pyrene	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Pyridine	ND	0.332	mg/Kg	1	9/28/2011 6:38:00 PM	
Surrogate: 2,4,6-Tribromophenol	84.5	19-122	%REC	1	9/28/2011 6:38:00 PM	
Surrogate: 2-Fluorobiphenyl	73.5	30-115	%REC	1	9/28/2011 6:38:00 PM	

Qualifiers: *X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-010
Client Sample ID DST SED 2011-3

Collection Date: 9/13/2011 5:00:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS						
Surr: 2-Fluorophenol	67.1	25-121	%REC		1	9/28/2011 6:38:00 PM
Surr: Nitrobenzene-d5	62.4	23-120	%REC		1	9/28/2011 6:38:00 PM
Surr: Phenol-d6	73.3	24-113	%REC		1	9/28/2011 6:38:00 PM
Surr: Terphenyl-d14	103	18-137	%REC		1	9/28/2011 6:38:00 PM
TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS						
1,1,1-Trichloroethane	ND	0.00795	mg/Kg		1.59	9/20/2011 1:13:00 PM
1,1,2,2-Tetrachloroethane	ND	0.00795	mg/Kg		1.59	9/20/2011 1:13:00 PM
1,1,2-Trichloroethane	ND	0.00795	mg/Kg		1.59	9/20/2011 1:13:00 PM
1,1-Dichloroethane	ND	0.00795	mg/Kg		1.59	9/20/2011 1:13:00 PM
1,1-Dichloroethene	ND	0.00795	mg/Kg		1.59	9/20/2011 1:13:00 PM
1,2-Dichloroethane	ND	0.00795	mg/Kg		1.59	9/20/2011 1:13:00 PM
1,2-Dichloropropane	ND	0.00795	mg/Kg		1.59	9/20/2011 1:13:00 PM
2-Hexanone	ND	0.159	mg/Kg		1.59	9/20/2011 1:13:00 PM
4-Methyl-2-pentanone	ND	0.0318	mg/Kg		1.59	9/20/2011 1:13:00 PM
Acetone	ND	0.159	mg/Kg		1.59	9/20/2011 1:13:00 PM
Benzene	ND	0.00795	mg/Kg		1.59	9/20/2011 1:13:00 PM
Bromodichloromethane	ND	0.00795	mg/Kg		1.59	9/20/2011 1:13:00 PM
Bromoform	ND	0.00795	mg/Kg		1.59	9/20/2011 1:13:00 PM
Bromomethane	ND	0.00795	mg/Kg		1.59	9/20/2011 1:13:00 PM
Carbon disulfide	ND	0.00795	mg/Kg		1.59	9/20/2011 1:13:00 PM
Carbon tetrachloride	ND	0.00795	mg/Kg		1.59	9/20/2011 1:13:00 PM
Chlorobenzene	ND	0.00795	mg/Kg		1.59	9/20/2011 1:13:00 PM
Chloroethane	ND	0.00795	mg/Kg		1.59	9/20/2011 1:13:00 PM
Chloroform	ND	0.00795	mg/Kg		1.59	9/20/2011 1:13:00 PM
Chloromethane	ND	0.0159	mg/Kg		1.59	9/20/2011 1:13:00 PM
cis-1,2-Dichloroethene	0.0146	0.00795	mg/Kg		1.59	9/20/2011 1:13:00 PM
cis-1,3-Dichloropropene	ND	0.00795	mg/Kg		1.59	9/20/2011 1:13:00 PM
Dibromochloromethane	ND	0.00795	mg/Kg		1.59	9/20/2011 1:13:00 PM
Ethylbenzene	ND	0.00795	mg/Kg		1.59	9/20/2011 1:13:00 PM
m,p-Xylene	ND	0.0159	mg/Kg		1.59	9/20/2011 1:13:00 PM
Methyl ethyl ketone	ND	0.0318	mg/Kg		1.59	9/20/2011 1:13:00 PM
Methylene chloride	ND	0.0318	mg/Kg		1.59	9/20/2011 1:13:00 PM

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-010
Client Sample ID DST SED 2011-3

Collection Date: 9/13/2011 5:00:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS						
o-Xylene	ND	0.00795		mg/Kg	1.59	9/20/2011 1:13:00 PM
Styrene	ND	0.00795		mg/Kg	1.59	9/20/2011 1:13:00 PM
Tetrachloroethene	ND	0.00795		mg/Kg	1.59	9/20/2011 1:13:00 PM
Toluene	ND	0.00795		mg/Kg	1.59	9/20/2011 1:13:00 PM
trans-1,2-Dichloroethene	ND	0.00795		mg/Kg	1.59	9/20/2011 1:13:00 PM
trans-1,3-Dichloropropene	ND	0.00795		mg/Kg	1.59	9/20/2011 1:13:00 PM
Trichloroethene	ND	0.00795		mg/Kg	1.59	9/20/2011 1:13:00 PM
Vinyl acetate	ND	0.0159		mg/Kg	1.59	9/20/2011 1:13:00 PM
Vinyl chloride	ND	0.00795		mg/Kg	1.59	9/20/2011 1:13:00 PM
Surr: 4-Bromofluorobenzene	98.5	74-121		%REC	1.59	9/20/2011 1:13:00 PM
Surr: Dibromofluoromethane	105	80-120		%REC	1.59	9/20/2011 1:13:00 PM
Surr: Toluene-d8	95.9	81-117		%REC	1.59	9/20/2011 1:13:00 PM

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347
Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-011
Client Sample ID DST SED 2011-4

Collection Date: 9/13/2011 5:26:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS						
1,2,4-Trichlorobenzene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
1,2-Dichlorobenzene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
1,3-Dichlorobenzene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
1,4-Dichlorobenzene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
2,4,5-Trichlorophenol	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
2,4,6-Trichlorophenol	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
2,4-Dichlorophenol	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
2,4-Dimethylphenol	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
2,4-Dinitrophenol	ND	5.02	mg/Kg	1	9/28/2011 12:39:00 PM	
2,4-Dinitrotoluene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
2,6-Dinitrotoluene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
2-Chloronaphthalene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
2-Chlorophenol	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
2-Methylnaphthalene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
2-Methylphenol	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
2-Nitroaniline	ND	5.02	mg/Kg	1	9/28/2011 12:39:00 PM	
2-Nitrophenol	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
3&4 Methylphenol	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
3,3'-Dichlorobenzidine	ND	1.95	mg/Kg	1	9/28/2011 12:39:00 PM	
3-Nitroaniline	ND	5.02	mg/Kg	1	9/28/2011 12:39:00 PM	
4,6-Dinitro-2-methylphenol	ND	5.02	mg/Kg	1	9/28/2011 12:39:00 PM	
4-Bromophenyl phenyl ether	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
4-Chloro-3-methylphenol	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
4-Chloroaniline	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
4-Chlorophenyl phenyl ether	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
4-Nitroaniline	ND	1.95	mg/Kg	1	9/28/2011 12:39:00 PM	
4-Nitrophenol	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Acenaphthene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Acenaphthylene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Anthracene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Benzo (a) anthracene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Benzo(a)pyrene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Benzo(b)fluoranthene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Benzo(g,h,i)perylene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	

Qualifiers: *X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-011
Client Sample ID DST SED 2011-4

Collection Date: 9/13/2011 5:26:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS						
Benzo(k)fluoranthene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Benzoic acid	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Benzyl alcohol	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Bis(2-chloroethoxy)methane	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Bis(2-chloroethyl) ether	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Bis(2-chloroisopropyl) ether	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Bis(2-ethylhexyl) phthalate	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Butyl benzyl phthalate	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Chrysene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Dibenz(a,h)anthracene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Dibenzofuran	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Diethyl phthalate	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Dimethyl phthalate	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Di-n-butyl phthalate	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Di-n-octyl phthalate	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Fluoranthene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Fluorene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Hexachlorobenzene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Hexachlorobutadiene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Hexachlorocyclopentadiene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Hexachloroethane	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Indeno(1,2,3-cd)pyrene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Isophorone	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Naphthalene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Nitrobenzene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
N-Nitrosodi-n-propylamine	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
N-Nitrosodiphenylamine	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Pentachlorophenol	ND	5.02	mg/Kg	1	9/28/2011 12:39:00 PM	
Phenanthrene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Phenol	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Pyrene	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Pyridine	ND	0.975	mg/Kg	1	9/28/2011 12:39:00 PM	
Surr: 2,4,6-Tribromophenol	74.1	19-122	%REC	1	9/28/2011 12:39:00 PM	
Surr: 2-Fluorobiphenyl	40.2	30-115	%REC	1	9/28/2011 12:39:00 PM	

Qualifiers:	*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-011
Client Sample ID DST SED 2011-4

Collection Date: 9/13/2011 5:26:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS						
Surr: 2-Fluorophenol	53.9	25-121	%REC		1	9/28/2011 12:39:00 PM
Surr: Nitrobenzene-d5	43.1	23-120	%REC		1	9/28/2011 12:39:00 PM
Surr: Phenol-d6	63.5	24-113	%REC		1	9/28/2011 12:39:00 PM
Surr: Terphenyl-d14	80.2	18-137	%REC		1	9/28/2011 12:39:00 PM
TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS						
1,1,1-Trichloroethane	ND	0.00810	mg/Kg		1.62	9/20/2011 1:37:00 PM
1,1,2,2-Tetrachloroethane	ND	0.00810	mg/Kg		1.62	9/20/2011 1:37:00 PM
1,1,2-Trichloroethane	ND	0.00810	mg/Kg		1.62	9/20/2011 1:37:00 PM
1,1-Dichloroethane	ND	0.00810	mg/Kg		1.62	9/20/2011 1:37:00 PM
1,1-Dichloroethene	ND	0.00810	mg/Kg		1.62	9/20/2011 1:37:00 PM
1,2-Dichloroethane	ND	0.00810	mg/Kg		1.62	9/20/2011 1:37:00 PM
1,2-Dichloropropane	ND	0.00810	mg/Kg		1.62	9/20/2011 1:37:00 PM
2-Hexanone	ND	0.162	mg/Kg		1.62	9/20/2011 1:37:00 PM
4-Methyl-2-pentanone	ND	0.0324	mg/Kg		1.62	9/20/2011 1:37:00 PM
Acetone	ND	0.162	mg/Kg		1.62	9/20/2011 1:37:00 PM
Benzene	ND	0.00810	mg/Kg		1.62	9/20/2011 1:37:00 PM
Bromodichloromethane	ND	0.00810	mg/Kg		1.62	9/20/2011 1:37:00 PM
Bromoform	ND	0.00810	mg/Kg		1.62	9/20/2011 1:37:00 PM
Bromomethane	ND	0.00810	mg/Kg		1.62	9/20/2011 1:37:00 PM
Carbon disulfide	ND	0.00810	mg/Kg		1.62	9/20/2011 1:37:00 PM
Carbon tetrachloride	ND	0.00810	mg/Kg		1.62	9/20/2011 1:37:00 PM
Chlorobenzene	ND	0.00810	mg/Kg		1.62	9/20/2011 1:37:00 PM
Chloroethane	ND	0.00810	mg/Kg		1.62	9/20/2011 1:37:00 PM
Chloroform	ND	0.00810	mg/Kg		1.62	9/20/2011 1:37:00 PM
Chloromethane	ND	0.0162	mg/Kg		1.62	9/20/2011 1:37:00 PM
cis-1,2-Dichloroethene	0.0332	0.00810	mg/Kg		1.62	9/20/2011 1:37:00 PM
cis-1,3-Dichloropropene	ND	0.00810	mg/Kg		1.62	9/20/2011 1:37:00 PM
Dibromochloromethane	ND	0.00810	mg/Kg		1.62	9/20/2011 1:37:00 PM
Ethylbenzene	ND	0.00810	mg/Kg		1.62	9/20/2011 1:37:00 PM
m,p-Xylene	ND	0.0162	mg/Kg		1.62	9/20/2011 1:37:00 PM
Methyl ethyl ketone	ND	0.0324	mg/Kg		1.62	9/20/2011 1:37:00 PM
Methylene chloride	ND	0.0324	mg/Kg		1.62	9/20/2011 1:37:00 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



Precision Analytical, Inc.
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TEL: 216 663 0808 FAX: 216 663 0656
Website: www.precisionanalytical.com

Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-011
Client Sample ID DST SED 2011-4

Collection Date: 9/13/2011 5:26:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS						
				SW8260B		Analyst: AC
o-Xylene	ND	0.00810		mg/Kg	1.62	9/20/2011 1:37:00 PM
Styrene	ND	0.00810		mg/Kg	1.62	9/20/2011 1:37:00 PM
Tetrachloroethene	ND	0.00810		mg/Kg	1.62	9/20/2011 1:37:00 PM
Toluene	ND	0.00810		mg/Kg	1.62	9/20/2011 1:37:00 PM
trans-1,2-Dichloroethene	ND	0.00810		mg/Kg	1.62	9/20/2011 1:37:00 PM
trans-1,3-Dichloropropene	ND	0.00810		mg/Kg	1.62	9/20/2011 1:37:00 PM
Trichloroethene	0.0356	0.00810		mg/Kg	1.62	9/20/2011 1:37:00 PM
Vinyl acetate	ND	0.0162		mg/Kg	1.62	9/20/2011 1:37:00 PM
Vinyl chloride	ND	0.00810		mg/Kg	1.62	9/20/2011 1:37:00 PM
Surr: 4-Bromofluorobenzene	82.6	74-121		%REC	1.62	9/20/2011 1:37:00 PM
Surr: Dibromofluoromethane	97.8	80-120		%REC	1.62	9/20/2011 1:37:00 PM
Surr: Toluene-d8	93.4	81-117		%REC	1.62	9/20/2011 1:37:00 PM

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report
(consolidated)
WO#: 1109347
Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-012
Client Sample ID DST SED 2011-5

Collection Date: 9/13/2011 6:06:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS						
1,2,4-Trichlorobenzene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
1,2-Dichlorobenzene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
1,3-Dichlorobenzene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
1,4-Dichlorobenzene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
2,4,5-Trichlorophenol	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
2,4,6-Trichlorophenol	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
2,4-Dichlorophenol	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
2,4-Dimethylphenol	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
2,4-Dinitrophenol	ND	4.94		mg/Kg	1	9/28/2011 11:55:00 AM
2,4-Dinitrotoluene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
2,6-Dinitrotoluene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
2-Chloronaphthalene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
2-Chlorophenol	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
2-Methylnaphthalene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
2-Methylphenol	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
2-Nitroaniline	ND	4.94		mg/Kg	1	9/28/2011 11:55:00 AM
2-Nitrophenol	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
3&4 Methylphenol	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
3,3'-Dichlorobenzidine	ND	1.92		mg/Kg	1	9/28/2011 11:55:00 AM
3-Nitroaniline	ND	4.94		mg/Kg	1	9/28/2011 11:55:00 AM
4,6-Dinitro-2-methylphenol	ND	4.94		mg/Kg	1	9/28/2011 11:55:00 AM
4-Bromophenyl phenyl ether	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
4-Chloro-3-methylphenol	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
4-Chloroaniline	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
4-Chlorophenyl phenyl ether	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
4-Nitroaniline	ND	1.92		mg/Kg	1	9/28/2011 11:55:00 AM
4-Nitrophenol	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Acenaphthene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Acenaphthylene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Anthracene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Benzo (a) anthracene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Benzo(a)pyrene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Benzo(b)fluoranthene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Benzo(g,h,i)perylene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-012
Client Sample ID DST SED 2011-5

Collection Date: 9/13/2011 6:06:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS						
				SW8270C		Analyst: MIM
Benzo(k)fluoranthene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Benzoic acid	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Benzyl alcohol	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Bis(2-chloroethoxy)methane	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Bis(2-chloroethyl) ether	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Bis(2-chloroisopropyl) ether	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Bis(2-ethylhexyl) phthalate	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Butyl benzyl phthalate	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Chrysene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Dibenz(a,h)anthracene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Dibenzofuran	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Diethyl phthalate	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Dimethyl phthalate	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Di-n-butyl phthalate	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Di-n-octyl phthalate	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Fluoranthene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Fluorene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Hexachlorobenzene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Hexachlorobutadiene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Hexachlorocyclopentadiene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Hexachloroethane	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Isophorone	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Naphthalene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Nitrobenzene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
N-Nitrosodi-n-propylamine	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
N-Nitrosodiphenylamine	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Pentachlorophenol	ND	4.94		mg/Kg	1	9/28/2011 11:55:00 AM
Phenanthrene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Phenol	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Pyrene	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Pyridine	ND	0.958		mg/Kg	1	9/28/2011 11:55:00 AM
Surr: 2,4,6-Tribromophenol	77.7	19-122		%REC	1	9/28/2011 11:55:00 AM
Surr: 2-Fluorobiphenyl	35.7	30-115		%REC	1	9/28/2011 11:55:00 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-012
Client Sample ID DST SED 2011-5

Collection Date: 9/13/2011 6:06:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS						
Surr: 2-Fluorophenol	52.3	25-121	%REC		1	9/28/2011 11:55:00 AM
Surr: Nitrobenzene-d5	36.2	23-120	%REC		1	9/28/2011 11:55:00 AM
Surr: Phenol-d6	69.4	24-113	%REC		1	9/28/2011 11:55:00 AM
Surr: Terphenyl-d14	87.4	18-137	%REC		1	9/28/2011 11:55:00 AM
TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS						
				SW8260B		Analyst: AC
1,1,1-Trichloroethane	ND	0.0108	mg/Kg		2.16	9/20/2011 2:00:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0108	mg/Kg		2.16	9/20/2011 2:00:00 PM
1,1,2-Trichloroethane	ND	0.0108	mg/Kg		2.16	9/20/2011 2:00:00 PM
1,1-Dichloroethane	ND	0.0108	mg/Kg		2.16	9/20/2011 2:00:00 PM
1,1-Dichloroethene	ND	0.0108	mg/Kg		2.16	9/20/2011 2:00:00 PM
1,2-Dichloroethane	ND	0.0108	mg/Kg		2.16	9/20/2011 2:00:00 PM
1,2-Dichloropropane	ND	0.0108	mg/Kg		2.16	9/20/2011 2:00:00 PM
2-Hexanone	ND	0.216	mg/Kg		2.16	9/20/2011 2:00:00 PM
4-Methyl-2-pentanone	ND	0.0432	mg/Kg		2.16	9/20/2011 2:00:00 PM
Acetone	ND	0.216	mg/Kg		2.16	9/20/2011 2:00:00 PM
Benzene	ND	0.0108	mg/Kg		2.16	9/20/2011 2:00:00 PM
Bromodichloromethane	ND	0.0108	mg/Kg		2.16	9/20/2011 2:00:00 PM
Bromoform	ND	0.0108	mg/Kg		2.16	9/20/2011 2:00:00 PM
Bromomethane	ND	0.0108	mg/Kg		2.16	9/20/2011 2:00:00 PM
Carbon disulfide	ND	0.0108	mg/Kg		2.16	9/20/2011 2:00:00 PM
Carbon tetrachloride	ND	0.0108	mg/Kg		2.16	9/20/2011 2:00:00 PM
Chlorobenzene	ND	0.0108	mg/Kg		2.16	9/20/2011 2:00:00 PM
Chloroethane	ND	0.0108	mg/Kg		2.16	9/20/2011 2:00:00 PM
Chloroform	ND	0.0108	mg/Kg		2.16	9/20/2011 2:00:00 PM
Chloromethane	ND	0.0216	mg/Kg		2.16	9/20/2011 2:00:00 PM
cis-1,2-Dichloroethene	0.0263	0.0108	mg/Kg		2.16	9/20/2011 2:00:00 PM
cis-1,3-Dichloropropene	ND	0.0108	mg/Kg		2.16	9/20/2011 2:00:00 PM
Dibromochloromethane	ND	0.0108	mg/Kg		2.16	9/20/2011 2:00:00 PM
Ethylbenzene	ND	0.0108	mg/Kg		2.16	9/20/2011 2:00:00 PM
m,p-Xylene	ND	0.0216	mg/Kg		2.16	9/20/2011 2:00:00 PM
Methyl ethyl ketone	ND	0.0432	mg/Kg		2.16	9/20/2011 2:00:00 PM
Methylene chloride	ND	0.0432	mg/Kg		2.16	9/20/2011 2:00:00 PM

Qualifiers: */* Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-012
Client Sample ID DST SED 2011-5

Collection Date: 9/13/2011 6:06:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS						
o-Xylene	ND	0.0108		mg/Kg	2.16	9/20/2011 2:00:00 PM
Styrene	ND	0.0108		mg/Kg	2.16	9/20/2011 2:00:00 PM
Tetrachloroethene	ND	0.0108		mg/Kg	2.16	9/20/2011 2:00:00 PM
Toluene	ND	0.0108		mg/Kg	2.16	9/20/2011 2:00:00 PM
trans-1,2-Dichloroethene	ND	0.0108		mg/Kg	2.16	9/20/2011 2:00:00 PM
trans-1,3-Dichloropropene	ND	0.0108		mg/Kg	2.16	9/20/2011 2:00:00 PM
Trichloroethene	ND	0.0108		mg/Kg	2.16	9/20/2011 2:00:00 PM
Vinyl acetate	ND	0.0216		mg/Kg	2.16	9/20/2011 2:00:00 PM
Vinyl chloride	ND	0.0108		mg/Kg	2.16	9/20/2011 2:00:00 PM
Surr: 4-Bromofluorobenzene	93.7	74-121		%REC	2.16	9/20/2011 2:00:00 PM
Surr: Dibromofluoromethane	99.9	80-120		%REC	2.16	9/20/2011 2:00:00 PM
Surr: Toluene-d8	96.4	81-117		%REC	2.16	9/20/2011 2:00:00 PM

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-013
Client Sample ID DST SED 2011-6

Collection Date: 9/13/2011 6:30:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS						
1,2,4-Trichlorobenzene	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
1,2-Dichlorobenzene	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
1,3-Dichlorobenzene	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
1,4-Dichlorobenzene	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
2,4,5-Trichlorophenol	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
2,4,6-Trichlorophenol	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
2,4-Dichlorophenol	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
2,4-Dimethylphenol	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
2,4-Dinitrophenol	ND	4.57		mg/Kg	1	9/28/2011 10:57:00 AM
2,4-Dinitrotoluene	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
2,6-Dinitrotoluene	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
2-Chloronaphthalene	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
2-Chlorophenol	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
2-Methylnaphthalene	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
2-Methylphenol	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
2-Nitroaniline	ND	4.57		mg/Kg	1	9/28/2011 10:57:00 AM
2-Nitrophenol	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
3&4 Methylphenol	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
3,3'-Dichlorobenzidine	ND	1.77		mg/Kg	1	9/28/2011 10:57:00 AM
3-Nitroaniline	ND	4.57		mg/Kg	1	9/28/2011 10:57:00 AM
4,6-Dinitro-2-methylphenol	ND	4.57		mg/Kg	1	9/28/2011 10:57:00 AM
4-Bromophenyl phenyl ether	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
4-Chloro-3-methylphenol	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
4-Chloroaniline	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
4-Chlorophenyl phenyl ether	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
4-Nitroaniline	ND	1.77		mg/Kg	1	9/28/2011 10:57:00 AM
4-Nitrophenol	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
Acenaphthene	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
Acenaphthylene	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
Anthracene	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
Benzo (a) anthracene	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
Benzo(a)pyrene	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
Benzo(b)fluoranthene	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM
Benzo(g,h,i)perylene	ND	0.887		mg/Kg	1	9/28/2011 10:57:00 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-013
Client Sample ID DST SED 2011-6

Collection Date: 9/13/2011 6:30:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS						
Benzo(k)fluoranthene	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Benzoic acid	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Benzyl alcohol	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Bis(2-chloroethoxy)methane	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Bis(2-chloroethyl) ether	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Bis(2-chloroisopropyl) ether	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Bis(2-ethylhexyl) phthalate	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Butyl benzyl phthalate	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Chrysene	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Dibenz(a,h)anthracene	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Dibenzofuran	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Diethyl phthalate	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Dimethyl phthalate	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Di-n-butyl phthalate	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Di-n-octyl phthalate	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Fluoranthene	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Fluorene	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Hexachlorobenzene	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Hexachlorobutadiene	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Hexachlorocyclopentadiene	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Hexachloroethane	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Indeno(1,2,3-cd)pyrene	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Isophorone	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Naphthalene	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Nitrobenzene	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
N-Nitrosodi-n-propylamine	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
N-Nitrosodiphenylamine	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Pentachlorophenol	ND	4.57	mg/Kg	1	9/28/2011 10:57:00 AM	
Phenanthrene	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Phenol	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Pyrene	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Pyridine	ND	0.887	mg/Kg	1	9/28/2011 10:57:00 AM	
Surr: 2,4,6-Tribromophenol	92.5	19-122	%REC	1	9/28/2011 10:57:00 AM	
Surr: 2-Fluorobiphenyl	71.1	30-115	%REC	1	9/28/2011 10:57:00 AM	

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



Precision Analytical, Inc.
4450 Johnston Parkway Unit B
Cleveland, OH 44128
TEL: 216 663 0808 FAX: 216 663 0656
Website: www.precisionanalytical.com

Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-013
Client Sample ID DST SED 2011-6

Collection Date: 9/13/2011 6:30:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS						
Surr: 2-Fluorophenol	67.6	25-121	%REC		1	9/28/2011 10:57:00 AM
Surr: Nitrobenzene-d5	64.2	23-120	%REC		1	9/28/2011 10:57:00 AM
Surr: Phenol-d6	74.3	24-113	%REC		1	9/28/2011 10:57:00 AM
Surr: Terphenyl-d14	113	18-137	%REC		1	9/28/2011 10:57:00 AM
TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS						
1,1,1-Trichloroethane	ND	0.00895	mg/Kg		1.79	9/20/2011 2:23:00 PM
1,1,2,2-Tetrachloroethane	ND	0.00895	mg/Kg		1.79	9/20/2011 2:23:00 PM
1,1,2-Trichloroethane	ND	0.00895	mg/Kg		1.79	9/20/2011 2:23:00 PM
1,1-Dichloroethane	ND	0.00895	mg/Kg		1.79	9/20/2011 2:23:00 PM
1,1-Dichloroethene	ND	0.00895	mg/Kg		1.79	9/20/2011 2:23:00 PM
1,2-Dichloroethane	ND	0.00895	mg/Kg		1.79	9/20/2011 2:23:00 PM
1,2-Dichloropropane	ND	0.00895	mg/Kg		1.79	9/20/2011 2:23:00 PM
2-Hexanone	ND	0.179	mg/Kg		1.79	9/20/2011 2:23:00 PM
4-Methyl-2-pentanone	ND	0.0358	mg/Kg		1.79	9/20/2011 2:23:00 PM
Acetone	ND	0.179	mg/Kg		1.79	9/20/2011 2:23:00 PM
Benzene	ND	0.00895	mg/Kg		1.79	9/20/2011 2:23:00 PM
Bromodichloromethane	ND	0.00895	mg/Kg		1.79	9/20/2011 2:23:00 PM
Bromoform	ND	0.00895	mg/Kg		1.79	9/20/2011 2:23:00 PM
Bromomethane	ND	0.00895	mg/Kg		1.79	9/20/2011 2:23:00 PM
Carbon disulfide	ND	0.00895	mg/Kg		1.79	9/20/2011 2:23:00 PM
Carbon tetrachloride	ND	0.00895	mg/Kg		1.79	9/20/2011 2:23:00 PM
Chlorobenzene	ND	0.00895	mg/Kg		1.79	9/20/2011 2:23:00 PM
Chloroethane	ND	0.00895	mg/Kg		1.79	9/20/2011 2:23:00 PM
Chloroform	ND	0.00895	mg/Kg		1.79	9/20/2011 2:23:00 PM
Chloromethane	ND	0.0179	mg/Kg		1.79	9/20/2011 2:23:00 PM
cis-1,2-Dichloroethene	0.0952	0.00895	mg/Kg		1.79	9/20/2011 2:23:00 PM
cis-1,3-Dichloropropene	ND	0.00895	mg/Kg		1.79	9/20/2011 2:23:00 PM
Dibromochloromethane	0.0331	0.00895	mg/Kg		1.79	9/20/2011 2:23:00 PM
Ethylbenzene	ND	0.00895	mg/Kg		1.79	9/20/2011 2:23:00 PM
m,p-Xylene	ND	0.0179	mg/Kg		1.79	9/20/2011 2:23:00 PM
Methyl ethyl ketone	ND	0.0358	mg/Kg		1.79	9/20/2011 2:23:00 PM
Methylene chloride	ND	0.0358	mg/Kg		1.79	9/20/2011 2:23:00 PM

Qualifiers: */* Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Website: www.precisionanalytical.com

Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-013
Client Sample ID DST SED 2011-6

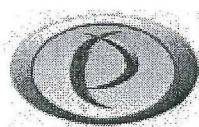
Collection Date: 9/13/2011 6:30:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS						
o-Xylene	ND	0.00895		mg/Kg	1.79	9/20/2011 2:23:00 PM
Styrene	ND	0.00895		mg/Kg	1.79	9/20/2011 2:23:00 PM
Tetrachloroethene	0.0239	0.00895		mg/Kg	1.79	9/20/2011 2:23:00 PM
Toluene	ND	0.00895		mg/Kg	1.79	9/20/2011 2:23:00 PM
trans-1,2-Dichloroethene	0.0135	0.00895		mg/Kg	1.79	9/20/2011 2:23:00 PM
trans-1,3-Dichloropropene	ND	0.00895		mg/Kg	1.79	9/20/2011 2:23:00 PM
Trichloroethene	0.186	0.00895		mg/Kg	1.79	9/20/2011 2:23:00 PM
Vinyl acetate	ND	0.0179		mg/Kg	1.79	9/20/2011 2:23:00 PM
Vinyl chloride	ND	0.00895		mg/Kg	1.79	9/20/2011 2:23:00 PM
Surr: 4-Bromofluorobenzene	81.3	74-121		%REC	1.79	9/20/2011 2:23:00 PM
Surr: Dibromofluoromethane	106	80-120		%REC	1.79	9/20/2011 2:23:00 PM
Surr: Toluene-d8	97.3	81-117		%REC	1.79	9/20/2011 2:23:00 PM

Analyst: AC

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



PRECISION
ANALYTICAL, INC.

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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-014
Client Sample ID DST SED 2011-7

Collection Date: 9/13/2011 7:15:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS						
1,2,4-Trichlorobenzene	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
1,2-Dichlorobenzene	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
1,3-Dichlorobenzene	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
1,4-Dichlorobenzene	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
2,4,5-Trichlorophenol	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
2,4,6-Trichlorophenol	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
2,4-Dichlorophenol	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
2,4-Dimethylphenol	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
2,4-Dinitrophenol	ND	4.78		mg/Kg	1	9/28/2011 1:32:00 AM
2,4-Dinitrotoluene	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
2,6-Dinitrotoluene	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
2-Chloronaphthalene	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
2-Chlorophenol	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
2-Methylnaphthalene	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
2-Methylphenol	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
2-Nitroaniline	ND	4.78		mg/Kg	1	9/28/2011 1:32:00 AM
2-Nitrophenol	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
3&4 Methylphenol	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
3,3'-Dichlorobenzidine	ND	1.86		mg/Kg	1	9/28/2011 1:32:00 AM
3-Nitroaniline	ND	4.78		mg/Kg	1	9/28/2011 1:32:00 AM
4,6-Dinitro-2-methylphenol	ND	4.78		mg/Kg	1	9/28/2011 1:32:00 AM
4-Bromophenyl phenyl ether	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
4-Chloro-3-methylphenol	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
4-Chloroaniline	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
4-Chlorophenyl phenyl ether	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
4-Nitroaniline	ND	1.86		mg/Kg	1	9/28/2011 1:32:00 AM
4-Nitrophenol	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
Acenaphthene	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
Acenaphthylene	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
Anthracene	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
Benzo (a)anthracene	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
Benzo(a)pyrene	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
Benzo(b)fluoranthene	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM
Benzo(g,h,i)perylene	ND	0.929		mg/Kg	1	9/28/2011 1:32:00 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-014
Client Sample ID DST SED 2011-7

Collection Date: 9/13/2011 7:15:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS						
Benzo(k)fluoranthene	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Benzoic acid	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Benzyl alcohol	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Bis(2-chloroethoxy)methane	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Bis(2-chloroethyl) ether	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Bis(2-chloroisopropyl) ether	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Bis(2-ethylhexyl) phthalate	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Butyl benzyl phthalate	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Chrysene	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Dibenz(a,h)anthracene	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Dibenzofuran	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Diethyl phthalate	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Dimethyl phthalate	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Di-n-butyl phthalate	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Di-n-octyl phthalate	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Fluoranthene	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Fluorene	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Hexachlorobenzene	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Hexachlorobutadiene	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Hexachlorocyclopentadiene	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Hexachloroethane	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Indeno(1,2,3-cd)pyrene	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Isophorone	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Naphthalene	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Nitrobenzene	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
N-Nitrosodi-n-propylamine	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
N-Nitrosodiphenylamine	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Pentachlorophenol	ND	4.78	mg/Kg	1	9/28/2011 1:32:00 AM	
Phenanthrene	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Phenol	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Pyrene	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Pyridine	ND	0.929	mg/Kg	1	9/28/2011 1:32:00 AM	
Surr: 2,4,6-Tribromophenol	77.7	19-122	%REC	1	9/28/2011 1:32:00 AM	
Surr: 2-Fluorobiphenyl	57.3	30-115	%REC	1	9/28/2011 1:32:00 AM	

Qualifiers: *X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-014
Client Sample ID DST SED 2011-7

Collection Date: 9/13/2011 7:15:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS						
Surr: 2-Fluorophenol	70.1	25-121	%REC		1	9/28/2011 1:32:00 AM
Surr: Nitrobenzene-d5	58.7	23-120	%REC		1	9/28/2011 1:32:00 AM
Surr: Phenol-d6	77.4	24-113	%REC		1	9/28/2011 1:32:00 AM
Surr: Terphenyl-d14	82.3	18-137	%REC		1	9/28/2011 1:32:00 AM
TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS						
1,1,1-Trichloroethane	ND	0.00735	mg/Kg		1.47	9/20/2011 2:46:00 PM
1,1,2,2-Tetrachloroethane	ND	0.00735	mg/Kg		1.47	9/20/2011 2:46:00 PM
1,1,2-Trichloroethane	ND	0.00735	mg/Kg		1.47	9/20/2011 2:46:00 PM
1,1-Dichloroethane	ND	0.00735	mg/Kg		1.47	9/20/2011 2:46:00 PM
1,1-Dichloroethene	ND	0.00735	mg/Kg		1.47	9/20/2011 2:46:00 PM
1,2-Dichloroethane	ND	0.00735	mg/Kg		1.47	9/20/2011 2:46:00 PM
1,2-Dichloropropane	ND	0.00735	mg/Kg		1.47	9/20/2011 2:46:00 PM
2-Hexanone	ND	0.147	mg/Kg		1.47	9/20/2011 2:46:00 PM
4-Methyl-2-pentanone	ND	0.0294	mg/Kg		1.47	9/20/2011 2:46:00 PM
Acetone	ND	0.147	mg/Kg		1.47	9/20/2011 2:46:00 PM
Benzene	ND	0.00735	mg/Kg		1.47	9/20/2011 2:46:00 PM
Bromodichloromethane	ND	0.00735	mg/Kg		1.47	9/20/2011 2:46:00 PM
Bromoform	ND	0.00735	mg/Kg		1.47	9/20/2011 2:46:00 PM
Bromomethane	ND	0.00735	mg/Kg		1.47	9/20/2011 2:46:00 PM
Carbon disulfide	ND	0.00735	mg/Kg		1.47	9/20/2011 2:46:00 PM
Carbon tetrachloride	ND	0.00735	mg/Kg		1.47	9/20/2011 2:46:00 PM
Chlorobenzene	ND	0.00735	mg/Kg		1.47	9/20/2011 2:46:00 PM
Chloroethane	ND	0.00735	mg/Kg		1.47	9/20/2011 2:46:00 PM
Chloroform	ND	0.00735	mg/Kg		1.47	9/20/2011 2:46:00 PM
Chloromethane	ND	0.0147	mg/Kg		1.47	9/20/2011 2:46:00 PM
cis-1,2-Dichloroethene	0.419	0.166	mg/Kg		33.1	9/21/2011 3:31:00 PM
cis-1,3-Dichloropropene	ND	0.00735	mg/Kg		1.47	9/20/2011 2:46:00 PM
Dibromochloromethane	ND	0.00735	mg/Kg		1.47	9/20/2011 2:46:00 PM
Ethylbenzene	ND	0.00735	mg/Kg		1.47	9/20/2011 2:46:00 PM
m,p-Xylene	ND	0.0147	mg/Kg		1.47	9/20/2011 2:46:00 PM
Methyl ethyl ketone	ND	0.0294	mg/Kg		1.47	9/20/2011 2:46:00 PM
Methylene chloride	ND	0.0294	mg/Kg		1.47	9/20/2011 2:46:00 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level
DF Dilution Factor
J Analyte detected below quantitation limits
MDL Method Detection Limit
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
N Tentatively identified compounds
PL Permit Limit
S Spike outside acceptance limits



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Analytical Report

(consolidated)

WO#: 1109347

Date Reported: 9/29/2011

CLIENT: URS Corp.
Project: DETREX DS-TRIB.
Lab ID: 1109347-014
Client Sample ID DST SED 2011-7

Collection Date: 9/13/2011 7:15:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS						
o-Xylene	ND	0.00735		mg/Kg	1.47	9/20/2011 2:46:00 PM
Styrene	ND	0.00735		mg/Kg	1.47	9/20/2011 2:46:00 PM
Tetrachloroethene	ND	0.00735		mg/Kg	1.47	9/20/2011 2:46:00 PM
Toluene	ND	0.00735		mg/Kg	1.47	9/20/2011 2:46:00 PM
trans-1,2-Dichloroethene	ND	0.00735		mg/Kg	1.47	9/20/2011 2:46:00 PM
trans-1,3-Dichloropropene	ND	0.00735		mg/Kg	1.47	9/20/2011 2:46:00 PM
Trichloroethene	0.00769	0.00735		mg/Kg	1.47	9/20/2011 2:46:00 PM
Vinyl acetate	ND	0.0147		mg/Kg	1.47	9/20/2011 2:46:00 PM
Vinyl chloride	0.114	0.0331		mg/Kg	33.1	9/21/2011 3:31:00 PM
Surr: 4-Bromofluorobenzene	83.5	74-121		%REC	1.47	9/20/2011 2:46:00 PM
Surr: Dibromofluoromethane	102	80-120		%REC	1.47	9/20/2011 2:46:00 PM
Surr: Toluene-d8	95.4	81-117		%REC	1.47	9/20/2011 2:46:00 PM

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: 13215

Sample ID: LCS-13215	SampType: LCS	TestCode: EPA_625AQ	Units: mg/L	Prep Date: 9/16/2011	RunNo: 29257						
Client ID: LCSW	Batch ID: 13215	TestNo: SW8270C		Analysis Date: 9/21/2011	SeqNo: 418794						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.0866	0.0100	0.200	0	43.3	44	142				S
1,2-Dichlorobenzene	0.0608	0.0100	0.200	0	30.4	32	129				S
1,3-Dichlorobenzene	0.0568	0.0100	0.200	0	28.4	1	127				
1,4-Dichlorobenzene	0.0570	0.0100	0.200	0	28.5	20	124				
2,4,6-Trichlorophenol	0.184	0.0100	0.200	0	91.8	37	144				
2,4-Dichlorophenol	0.135	0.0100	0.200	0	67.3	39	135				
2,4-Dinitrophenol	0.176	0.0100	0.200	0	87.8	1	191				
2,4-Dinitrotoluene	0.197	0.0100	0.200	0	98.6	39	139				
2,6-Dinitrotoluene	0.196	0.0100	0.200	0	97.9	50	158				
2-Chlorophenol	0.114	0.0100	0.200	0	57.1	23	134				
2-Nitrophenol	0.122	0.0100	0.200	0	61.1	29	182				
3&4 Methylphenol	0.134	0.0200	0.200	0	66.8	50	150				
4,6-Dinitro-2-methylphenol	0.177	0.0100	0.200	0	88.4	1	181				
4-Bromophenyl phenyl ether	0.189	0.0100	0.200	0	94.6	53	127				
4-Chloro-3-methylphenol	0.166	0.0100	0.200	0	83.2	22	147				
4-Nitrophenol	0.152	0.0100	0.200	0	76.0	1	132				
Acenaphthene	0.153	0.0100	0.200	0	76.5	47	145				
Acenaphthylene	0.151	0.0100	0.200	0	75.5	33	145				
Anthracene	0.183	0.0100	0.200	0	91.7	27	133				
Benz(a)anthracene	0.188	0.0100	0.200	0	94.0	33	143				
Benzo(a)pyrene	0.182	0.0100	0.200	0	90.9	17	163				
Benzo(b)fluoranthene	0.193	0.0100	0.200	0	96.4	24	159				
Benzo(g,h,i)perylene	0.178	0.0100	0.200	0	88.9	1	219				
Benzo(k)fluoranthene	0.203	0.0100	0.200	0	101	11	162				
Bis(2-chloroethoxy)methane	0.130	0.0100	0.200	0	64.9	33	184				
Bis(2-chloroethyl) ether	0.107	0.0100	0.200	0	53.4	12	158				

Qualifiers: *X Value exceeds Maximum Contaminant Level
M Manual Integration used to determine area response
R RPD outside accepted recovery limits

E Value above quantitation range
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

H Holding times for preparation or analysis exceed
P Second column confirmation exceeds
S Spike outside acceptance limits



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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: 13215

Sample ID: LCS-13215	SampType: LCS	TestCode: EPA_625AQ	Units: mg/L	Prep Date: 9/16/2011			RunNo: 29257				
Client ID: LCSW	Batch ID: 13215	TestNo: SW8270C		Analysis Date: 9/21/2011			SeqNo: 418794				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl) ether	0.109	0.0100	0.200	0	54.5	36	166				
Bis(2-ethylhexyl) phthalate	0.173	0.0100	0.200	0	86.3	8	158				
Butyl benzyl phthalate	0.186	0.0100	0.200	0	93.1	1	152				
Chrysene	0.188	0.0100	0.200	0	94.0	17	168				
Dibenz(a,h)anthracene	0.194	0.0100	0.200	0	97.0	1	227				
Diethyl phthalate	0.187	0.0100	0.200	0	93.3	1	114				
Dimethyl phthalate	0.178	0.0100	0.200	0	89.0	1	112				
Di-n-butyl phthalate	0.188	0.0100	0.200	0	93.9	1	118				
Di-n-octyl phthalate	0.179	0.0100	0.200	0	89.5	4	146				
Fluoranthene	0.193	0.0100	0.200	0	96.6	26	137				
Fluorene	0.176	0.0100	0.200	0	88.0	59	121				
Hexachlorobenzene	0.205	0.0100	0.200	0	103	1	152				
Hexachlorobutadiene	0.0651	0.0100	0.200	0	32.6	24	116				
Indeno(1,2,3-cd)pyrene	0.190	0.0100	0.200	0	95.0	1	171				
Isophorone	0.151	0.0100	0.200	0	75.7	21	196				
Naphthalene	0.0896	0.0100	0.200	0	44.8	21	133				
Nitrobenzene	0.118	0.0100	0.200	0	58.8	35	180				
N-Nitrosodi-n-propylamine	0.140	0.0100	0.200	0	69.8	1	230				
Pentachlorophenol	0.204	0.0100	0.200	0	102	14	176				
Phenanthrene	0.178	0.0100	0.200	0	89.0	54	120				
Phenol	0.0951	0.0100	0.200	0	47.6	5	112				
Pyrene	0.188	0.0100	0.200	0	94.0	52	115				
Surr: 2,4,6-Tribromophenol	215		200.0		108	10	123				
Surr: 2-Fluorobiphenyl	143		200.0		71.4	43	116				
Surr: 2-Fluorophenol	111		200.0		55.7	21	100				
Surr: Nitrobenzene-d5	134		200.0		67.0	35	114				

Qualifiers: *X Value exceeds Maximum Contaminant Level
M Manual Integration used to determine area response
R RPD outside accepted recovery limits

E Value above quantitation range
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

H Holding times for preparation or analysis exceed
P Second column confirmation exceeds
S Spike outside acceptance limits



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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: 13215

Sample ID: LCS-13215	SampType: LCS	TestCode: EPA_625AQ	Units: mg/L	Prep Date: 9/16/2011	RunNo: 29257
Client ID: LCSW	Batch ID: 13215	TestNo: SW8270C		Analysis Date: 9/21/2011	SeqNo: 418794
Analyte					
Surr: Phenol-d6	109	200.0	54.4	10	100
Surr: Terphenyl-d14	219	200.0	109	33	141
Sample ID: LCSD-13215					
Client ID: LCSS02	SampType: LCSD	TestCode: EPA_625AQ	Units: mg/L	Prep Date: 9/16/2011	RunNo: 29257
Client ID: LCSS02	Batch ID: 13215	TestNo: SW8270C		Analysis Date: 9/21/2011	SeqNo: 418797
Analyte					
1,2,4-Trichlorobenzene	0.0875	0.0100	0.200	0	43.8 44 142 0.0866 1.03 20 S
1,2-Dichlorobenzene	0.0655	0.0100	0.200	0	32.8 32 129 0.0608 7.51 20
1,3-Dichlorobenzene	0.0620	0.0100	0.200	0	31.0 1 127 0.0568 8.89 20
1,4-Dichlorobenzene	0.0619	0.0100	0.200	0	31.0 20 124 0.0570 8.24 20
2,4,6-Trichlorophenol	0.181	0.0100	0.200	0	90.4 37 144 0.184 1.48 20
2,4-Dichlorophenol	0.141	0.0100	0.200	0	70.5 39 135 0.135 4.65 20
2,4-Dinitrophenol	0.179	0.0100	0.200	0	89.5 1 191 0.176 1.95 20
2,4-Dinitrotoluene	0.197	0.0100	0.200	0	98.7 39 139 0.197 0.132 20
2,6-Dinitrotoluene	0.194	0.0100	0.200	0	97.2 50 158 0.196 0.738 20
2-Chlorophenol	0.126	0.0100	0.200	0	63.0 23 134 0.114 9.92 20
2-Nitrophenol	0.130	0.0100	0.200	0	64.9 29 182 0.122 6.13 20
3&4 Methylphenol	0.142	0.0200	0.200	0	71.2 50 150 0.134 6.27 20
4,6-Dinitro-2-methylphenol	0.178	0.0100	0.200	0	88.9 1 181 0.177 0.530 20
4-Bromophenyl phenyl ether	0.185	0.0100	0.200	0	92.5 53 127 0.189 2.20 20
4-Chloro-3-methylphenol	0.164	0.0100	0.200	0	82.0 22 147 0.166 1.54 20
4-Nitrophenol	0.161	0.0100	0.200	0	80.7 1 132 0.152 6.03 20
Acenaphthene	0.144	0.0100	0.200	0	72.2 47 145 0.153 5.66 20
Acenaphthylene	0.142	0.0100	0.200	0	71.2 33 145 0.151 5.89 20
Anthracene	0.188	0.0100	0.200	0	94.1 27 133 0.183 2.56 20

Qualifiers:	*/X Value exceeds Maximum Contaminant Level	E Value above quantitation range	H Holding times for preparation or analysis exceed
M Manual Integration used to determine area response	ND Not Detected at the Reporting Limit	P Second column confirmation exceeds	
R RPD outside accepted recovery limits	RL Reporting Detection Limit (PQL)	S Spike outside acceptance limits	



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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: 13215

Sample ID:	LCSD-13215	SampType:	LCSD	TestCode:	EPA_625AQ	Units:	mg/L	Prep Date:	9/16/2011	RunNo:	29257
Client ID:	LCSS02	Batch ID:	13215	TestNo:	SW8270C	Analysis Date: 9/21/2011			SeqNo:	418797	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.192	0.0100	0.200	0	96.2	33	143	0.188	2.37	20	
Benzo(a)pyrene	0.188	0.0100	0.200	0	93.8	17	163	0.182	3.06	20	
Benzo(b)fluoranthene	0.206	0.0100	0.200	0	103	24	159	0.193	6.64	20	
Benzo(g,h,i)perylene	0.182	0.0100	0.200	0	91.2	1	219	0.178	2.61	20	
Benzo(k)fluoranthene	0.209	0.0100	0.200	0	104	11	162	0.203	2.94	20	
Bis(2-chloroethoxy)methane	0.136	0.0100	0.200	0	67.8	33	184	0.130	4.30	20	
Bis(2-chloroethyl) ether	0.120	0.0100	0.200	0	60.2	12	158	0.107	12.1	20	
Bis(2-chloroisopropyl) ether	0.119	0.0100	0.200	0	59.5	36	166	0.109	8.74	20	
Bis(2-ethylhexyl) phthalate	0.177	0.0100	0.200	0	88.4	8	158	0.173	2.40	20	
Butyl benzyl phthalate	0.192	0.0100	0.200	0	96.0	1	152	0.186	3.10	20	
Chrysene	0.193	0.0100	0.200	0	96.5	17	168	0.188	2.56	20	
Dibenz(a,h)anthracene	0.198	0.0100	0.200	0	99.1	1	227	0.194	2.13	20	
Diethyl phthalate	0.188	0.0100	0.200	0	93.9	1	114	0.187	0.663	20	
Dimethyl phthalate	0.179	0.0100	0.200	0	89.6	1	112	0.178	0.728	20	
Di-n-butyl phthalate	0.194	0.0100	0.200	0	97.1	1	118	0.188	3.33	20	
Di-n-octyl phthalate	0.186	0.0100	0.200	0	92.8	4	146	0.179	3.55	20	
Fluoranthene	0.199	0.0100	0.200	0	99.6	26	137	0.193	3.14	20	
Fluorene	0.172	0.0100	0.200	0	86.0	59	121	0.176	2.38	20	
Hexachlorobenzene	0.201	0.0100	0.200	0	100	1	152	0.205	2.30	20	
Hexachlorobutadiene	0.0704	0.0100	0.200	0	35.2	24	116	0.0651	7.74	20	
Indeno(1,2,3-cd)pyrene	0.195	0.0100	0.200	0	97.3	1	171	0.190	2.38	20	
Isophorone	0.154	0.0100	0.200	0	76.9	21	196	0.151	1.60	20	
Naphthalene	0.0900	0.0100	0.200	0	45.0	21	133	0.0896	0.401	20	
Nitrobenzene	0.127	0.0100	0.200	0	63.7	35	180	0.118	7.88	20	
N-Nitrosodi-n-propylamine	0.147	0.0100	0.200	0	73.6	1	230	0.140	5.23	20	
Pentachlorophenol	0.202	0.0100	0.200	0	101	14	176	0.204	1.13	20	

Qualifiers: */* Value exceeds Maximum Contaminant Level
M Manual Integration used to determine area response
R RPD outside accepted recovery limits

E Value above quantitation range
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

H Holding times for preparation or analysis exceed
P Second column confirmation exceeds
S Spike outside acceptance limits



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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: 13215

Sample ID:	LCSD-13215	SampType:	LCSD	TestCode:	EPA_625AQ	Units:	mg/L	Prep Date:	9/16/2011	RunNo:	29257	
Client ID:	LCSS02	Batch ID:	13215	TestNo:	SW8270C				Analysis Date:	9/21/2011	SeqNo:	418797
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene		0.182	0.0100	0.200	0	90.8	54	120	0.178	1.95	20	
Phenol		0.108	0.0100	0.200	0	54.1	5	112	0.0951	12.8	20	
Pyrene		0.192	0.0100	0.200	0	96.2	52	115	0.188	2.26	20	
Surr: 2,4,6-Tribromophenol		210		200.0		105	10	123		0	20	
Surr: 2-Fluorobiphenyl		139		200.0		69.4	43	116		0	20	
Surr: 2-Fluorophenol		129		200.0		64.5	21	100		0	20	
Surr: Nitrobenzene-d5		149		200.0		74.6	35	114		0	20	
Surr: Phenol-d6		126		200.0		63.1	10	100		0	20	
Surr: Terphenyl-d14		225		200.0		112	33	141		0	20	
Sample ID:	MB-13215	SampType:	MBLK	TestCode:	EPA_625AQ	Units:	mg/L	Prep Date:	9/16/2011	RunNo:	29257	
Client ID:	PBW	Batch ID:	13215	TestNo:	SW8270C				Analysis Date:	9/21/2011	SeqNo:	418798
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene		0	0.0100									
1,2-Dichlorobenzene		0	0.0100									
1,3-Dichlorobenzene		0	0.0100									
1,4-Dichlorobenzene		0	0.0100									
2,4,5-Trichlorophenol		0	0.0100									
2,4,6-Trichlorophenol		0	0.0100									
2,4-Dichlorophenol		0	0.0100									
2,4-Dimethylphenol		0	0.0100									
2,4-Dinitrophenol		0	0.0100									
2,4-Dinitrotoluene		0	0.0100									
2,6-Dinitrotoluene		0	0.0100									
2-Chloronaphthalene		0	0.0100									

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
M		Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
R		RPD outside accepted recovery limits	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: 13215

Sample ID:	MB-13215	SampType:	MBLK	TestCode:	EPA_625AQ	Units:	mg/L	Prep Date:	9/16/2011	RunNo:	29257		
Client ID:	PBW	Batch ID:	13215	TestNo:	SW8270C			Analysis Date:	9/21/2011	SeqNo:	418798		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chlorophenol		0	0.0100										
2-Methylphenol		0	0.0200										
2-Nitroaniline		0	0.0100										
2-Nitrophenol		0	0.0100										
3&4 Methylphenol		0	0.0200										
3,3'-Dichlorobenzidine		0	0.0100										
3-Nitroaniline		0	0.0100										
4,6-Dinitro-2-methylphenol		0	0.0100										
4-Bromophenyl phenyl ether		0	0.0100										
4-Chloro-3-methylphenol		0	0.0100										
4-Chloroaniline		0	0.0100										
4-Chlorophenyl phenyl ether		0	0.0100										
4-Nitroaniline		0	0.0100										
4-Nitrophenol		0	0.0100										
Acenaphthene		0	0.0100										
Acenaphthylene		0	0.0100										
Anthracene		0	0.0100										
Benz(a)anthracene		0	0.0100										
Benzo(a)pyrene		0	0.0100										
Benzo(b)fluoranthene		0	0.0100										
Benzo(g,h,i)perylene		0	0.0100										
Benzo(k)fluoranthene		0	0.0100										
Benzoic acid		0	0.0100										
Bis(2-chloroethoxy)methane		0	0.0100										
Bis(2-chloroethyl) ether		0	0.0100										
Bis(2-chloroisopropyl) ether		0	0.0100										

Qualifiers: */* Value exceeds Maximum Contaminant Level
M Manual Integration used to determine area response
R RPD outside accepted recovery limits

E Value above quantitation range
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

H Holding times for preparation or analysis exceed
P Second column confirmation exceeds
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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: 13215

Sample ID:	MB-13215	SampType:	MBLK	TestCode:	EPA_625AQ	Units:	mg/L	Prep Date:	9/16/2011	RunNo:	29257		
Client ID:	PBW	Batch ID:	13215	TestNo:	SW8270C			Analysis Date:	9/21/2011	SeqNo:	418798		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate		0	0.0100										
Butyl benzyl phthalate		0	0.0100										
Chrysene		0	0.0100										
Dibenz(a,h)anthracene		0	0.0100										
Diethyl phthalate		0	0.0100										
Dimethyl phthalate		0	0.0100										
Di-n-butyl phthalate		0	0.0100										
Di-n-octyl phthalate		0	0.0100										
Fluoranthene		0	0.0100										
Fluorene		0	0.0100										
Hexachlorobenzene		0	0.0100										
Hexachlorobutadiene		0	0.0100										
Hexachlorocyclopentadiene		0	0.0100										
Hexachloroethane		0	0.0100										
Indeno(1,2,3-cd)pyrene		0	0.0100										
Isophorone		0	0.0100										
Naphthalene		0	0.0100										
Nitrobenzene		0	0.0100										
N-Nitrosodi-n-propylamine		0	0.0100										
N-Nitrosodiphenylamine		0	0.0100										
Pentachlorophenol		0	0.0100										
Phenanthrene		0	0.0100										
Phenol		0	0.0100										
Pyrene		0	0.0100										
Pyridine		0	0.0100										
Surrogate: 2,4,6-Tribromophenol		155		200.0			77.7	10	123				

Qualifiers: *X Value exceeds Maximum Contaminant Level
M Manual Integration used to determine area response
R RPD outside accepted recovery limits

E Value above quantitation range
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

H Holding times for preparation or analysis exceed
P Second column confirmation exceeds
S Spike outside acceptance limits



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Website: www.precisionanalytical.com

QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: 13215

Sample ID: MB-13215	SampType: MBLK	TestCode: EPA_625AQ	Units: mg/L	Prep Date: 9/16/2011	RunNo: 29257
Client ID: PBW	Batch ID: 13215	TestNo: SW8270C		Analysis Date: 9/21/2011	SeqNo: 418798
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Surr: 2-Fluorobiphenyl	117		200.0		58.5
Surr: 2-Fluorophenol	92.9		200.0		46.5
Surr: Nitrobenzene-d5	106		200.0		53.0
Surr: Phenol-d6	83.4		200.0		41.7
Surr: Terphenyl-d14	218		200.0		109
				LowLimit	HighLimit
				RPD Ref Val	%RPD
				RPDLimit	Qual

Qualifiers: */* Value exceeds Maximum Contaminant Level
M Manual Integration used to determine area response
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E Value above quantitation range
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)
H Holding times for preparation or analysis exceed
P Second column confirmation exceeds
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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: 13246

Sample ID: 1109347-008AMS	SampType: MS	TestCode: SW_8270SOL Units: mg/Kg			Prep Date: 9/19/2011			RunNo: 29413			
Client ID: DST SED 2011-1	Batch ID: 13246	TestNo: SW8270C			Analysis Date: 9/28/2011			SeqNo: 421708			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	2.71	0.863	8.710	0	31.1	44	142				S
1,4-Dichlorobenzene	1.71	0.863	8.710	0	19.6	20	124				S
2,4-Dinitrotoluene	7.75	0.863	8.710	0	88.9	39	139				
2-Chlorophenol	4.87	0.863	8.710	0	55.9	23	134				
4-Chloro-3-methylphenol	7.25	0.863	8.710	0	83.2	22	147				
4-Nitrophenol	9.03	0.863	8.710	0	104	1	132				
Acenaphthene	4.81	0.863	8.710	0	55.2	47	145				
N-Nitrosodi-n-propylamine	4.93	0.863	8.710	0	56.6	1	230				
Pentachlorophenol	7.03	4.45	8.710	0	80.8	14	176				
Phenol	5.81	0.863	8.710	0	66.7	5	112				
Pyrene	7.65	0.863	8.710	0	87.8	52	115				
Surr: 2,4,6-Tribromophenol	8.04		8.710		92.3	19	122				
Surr: 2-Fluorobiphenyl	4.51		8.710		51.8	30	115				
Surr: 2-Fluorophenol	5.06		8.710		58.1	25	121				
Surr: Nitrobenzene-d5	4.30		8.710		49.4	23	120				
Surr: Phenol-d6	6.00		8.710		68.9	24	113				
Surr: Terphenyl-d14	8.48		8.710		97.4	18	137				

Sample ID: 1109347-008AMSD	SampType: MSD	TestCode: SW_8270SOL Units: mg/Kg			Prep Date: 9/19/2011			RunNo: 29413			
Client ID: DST SED 2011-1	Batch ID: 13246	TestNo: SW8270C			Analysis Date: 9/28/2011			SeqNo: 421709			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	6.22	0.930	9.380	0	66.3	44	142	2.710	78.6	20	R
1,4-Dichlorobenzene	4.81	0.930	9.380	0	51.3	20	124	1.707	95.2	20	R
2,4-Dinitrotoluene	8.60	0.930	9.380	0	91.6	39	139	7.745	10.4	20	
2-Chlorophenol	6.09	0.930	9.380	0	64.9	23	134	4.870	22.2	20	R

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds	
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits	



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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: 13246

Sample ID:	1109347-008AMSD	SampType:	MSD	TestCode:	SW_8270SOL	Units:	mg/Kg	Prep Date:	9/19/2011	RunNo:	29413		
Client ID:	DST SED 2011-1	Batch ID:	13246	TestNo:	SW8270C			Analysis Date:	9/28/2011	SeqNo:	421709		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol		7.79	0.930	9.380	0	83.0	22	147	7.247	7.21	20		
4-Nitrophenol		9.19	0.930	9.380	0	98.0	1	132	9.031	1.80	20		
Acenaphthene		7.08	0.930	9.380	0	75.5	47	145	4.811	38.2	20	R	
N-Nitrosodi-n-propylamine		6.29	0.930	9.380	0	67.0	1	230	4.929	24.2	20	R	
Pentachlorophenol		7.22	4.79	9.380	0	76.9	14	176	7.035	2.53	20		
Phenol		6.71	0.930	9.380	0	71.5	5	112	5.810	14.4	20		
Pyrene		9.13	0.930	9.380	0	97.4	52	115	7.650	17.7	20		
Surrogate: 2,4,6-Tribromophenol		9.50		9.380		101	19	122		0	20		
Surrogate: 2-Fluorobiphenyl		7.83		9.380		83.4	30	115		0	20		
Surrogate: 2-Fluorophenol		6.53		9.380		69.6	25	121		0	20		
Surrogate: Nitrobenzene-d5		6.23		9.380		66.4	23	120		0	20		
Surrogate: Phenol-d6		7.12		9.380		76.0	24	113		0	20		
Surrogate: Terphenyl-d14		10.6		9.380		113	18	137		0	20		

Qualifiers: */* Value exceeds Maximum Contaminant Level
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QC SUMMARY REPORT

WO#: 1109347

30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: 13246

Sample ID:	MB-13246	SampType:	MBLK	TestCode:	SW_8270SOL	Units:	mg/Kg	Prep Date:	9/19/2011	RunNo:	29395		
Client ID:	PBS	Batch ID:	13246	TestNo:	SW8270C			Analysis Date:	9/27/2011	SeqNo:	421218		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene		ND	0.330										
1,2-Dichlorobenzene		ND	0.330										
1,3-Dichlorobenzene		ND	0.330										
1,4-Dichlorobenzene		ND	0.330										
2,4,5-Trichlorophenol		ND	0.330										
2,4,6-Trichlorophenol		ND	0.330										
2,4-Dichlorophenol		ND	0.330										
2,4-Dimethylphenol		ND	0.330										
2,4-Dinitrophenol		ND	1.70										
2,4-Dinitrotoluene		ND	0.330										
2,6-Dinitrotoluene		ND	0.330										
2-Chloronaphthalene		ND	0.330										
2-Chlorophenol		ND	0.330										
2-Methylnaphthalene		ND	0.330										
2-Methylphenol		ND	0.330										
2-Nitroaniline		ND	1.70										
2-Nitrophenol		ND	0.330										
3&4 Methylphenol		ND	0.330										
3,3'-Dichlorobenzidine		ND	0.660										
3-Nitroaniline		ND	1.70										
4,6-Dinitro-2-methylphenol		ND	1.70										
4-Bromophenyl phenyl ether		ND	0.330										
4-Chloro-3-methylphenol		ND	0.330										
4-Chloroaniline		ND	0.330										
4-Chlorophenyl phenyl ether		ND	0.330										
4-Nitroaniline		ND	0.660										

Qualifiers: */* Value exceeds Maximum Contaminant Level
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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: 13246

Sample ID:	MB-13246	SampType:	MBLK	TestCode:	SW_8270SOL	Units:	mg/Kg	Prep Date:	9/19/2011	RunNo:	29395		
Client ID:	PBS	Batch ID:	13246	TestNo:	SW8270C			Analysis Date:	9/27/2011	SeqNo:	421218		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol		ND	0.330										
Acenaphthene		ND	0.330										
Acenaphthylene		ND	0.330										
Anthracene		ND	0.330										
Benzo (a) anthracene		ND	0.330										
Benzo(a)pyrene		ND	0.330										
Benzo(b)fluoranthene		ND	0.330										
Benzo(g,h,i)perylene		ND	0.330										
Benzo(k)fluoranthene		ND	0.330										
Benzoic acid		ND	0.330										
Benzyl alcohol		ND	0.330										
Bis(2-chloroethoxy)methane		ND	0.330										
Bis(2-chloroethyl) ether		ND	0.330										
Bis(2-chloroisopropyl) ether		ND	0.330										
Bis(2-ethylhexyl) phthalate		ND	0.330										
Butyl benzyl phthalate		ND	0.330										
Chrysene		ND	0.330										
Dibenzo(a,h)anthracene		ND	0.330										
Dibenzofuran		ND	0.330										
Diethyl phthalate		ND	0.330										
Dimethyl phthalate		ND	0.330										
Di-n-butyl phthalate		ND	0.330										
Di-n-octyl phthalate		ND	0.330										
Fluoranthene		ND	0.330										
Fluorene		ND	0.330										
Hexachlorobenzene		ND	0.330										

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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: 13246

Sample ID:	MB-13246	SampType:	MBLK	TestCode:	SW_8270SOL	Units:	mg/Kg	Prep Date:	9/19/2011	RunNo:	29395	
Client ID:	PBS	Batch ID:	13246	TestNo:	SW8270C				Analysis Date:	9/27/2011	SeqNo:	421218
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Hexachlorobutadiene	ND		0.330									
Hexachlorocyclopentadiene	ND		0.330									
Hexachloroethane	ND		0.330									
Indeno(1,2,3-cd)pyrene	ND		0.330									
Isophorone	ND		0.330									
Naphthalene	ND		0.330									
Nitrobenzene	ND		0.330									
N-Nitrosodi-n-propylamine	ND		0.330									
N-Nitrosodiphenylamine	ND		0.330									
Pentachlorophenol	ND		1.70									
Phenanthrene	ND		0.330									
Phenol	ND		0.330									
Pyrene	ND		0.330									
Pyridine	ND		0.330									
Surr: 2,4,6-Tribromophenol	1.51		3.330		45.5	19	122					
Surr: 2-Fluorobiphenyl	1.35		3.330		40.7	30	115					
Surr: 2-Fluorophenol	1.75		3.330		52.4	25	121					
Surr: Nitrobenzene-d5	1.43		3.330		42.8	23	120					
Surr: Phenol-d6	2.18		3.330		65.6	24	113					
Surr: Terphenyl-d14	3.27		3.330		98.3	18	137					

Sample ID:	LCS-13246	SampType:	LCS	TestCode:	SW_8270SOL	Units:	mg/Kg	Prep Date:	9/19/2011	RunNo:	29395	
Client ID:	LCSS	Batch ID:	13246	TestNo:	SW8270C				Analysis Date:	9/28/2011	SeqNo:	421219
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,2,4-Trichlorobenzene	0.765	0.330	3.330	0	23.0	44	142				S	

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
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R	RPD outside accepted recovery limits	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits	



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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: 13246

Sample ID: LCS-13246	SampType: LCS	TestCode: SW_8270SOL Units: mg/Kg			Prep Date: 9/19/2011			RunNo: 29395			
Client ID: LCSS	Batch ID: 13246	TestNo: SW8270C			Analysis Date: 9/28/2011			SeqNo: 421219			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.375	0.330	3.330	0	11.3	20	124				S
2,4-Dinitrotoluene	2.84	0.330	3.330	0	85.3	39	139				
2-Chlorophenol	1.33	0.330	3.330	0	40.0	23	134				
4-Chloro-3-methylphenol	2.32	0.330	3.330	0	69.8	22	147				
4-Nitrophenol	2.40	0.330	3.330	0	72.0	1	132				
Acenaphthene	1.97	0.330	3.330	0	59.3	47	145				
N-Nitrosodi-n-propylamine	1.56	0.330	3.330	0	46.9	1	230				
Pentachlorophenol	2.59	1.70	3.330	0	77.8	14	176				
Phenol	1.97	0.330	3.330	0	59.0	5	112				
Pyrene	2.91	0.330	3.330	0	87.5	52	115				
Surr: 2,4,6-Tribromophenol	2.89		3.330		86.9	19	122				
Surr: 2-Fluorobiphenyl	1.80		3.330		54.1	30	115				
Surr: 2-Fluorophenol	1.57		3.330		47.1	25	121				
Surr: Nitrobenzene-d5	1.24		3.330		37.2	23	120				
Surr: Phenol-d6	2.08		3.330		62.4	24	113				
Surr: Terphenyl-d14	3.34		3.330		100	18	137				

Sample ID: LCSD-13246	SampType: LCSD	TestCode: SW_8270SOL Units: mg/Kg			Prep Date: 9/19/2011			RunNo: 29395			
Client ID: LCSS02	Batch ID: 13246	TestNo: SW8270C			Analysis Date: 9/28/2011			SeqNo: 421220			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.717	0.330	3.330	0	21.5	44	142	0.7653	6.57	20	S
1,4-Dichlorobenzene	0.387	0.330	3.330	0	11.6	20	124	0.3747	3.15	20	S
2,4-Dinitrotoluene	2.85	0.330	3.330	0	85.6	39	139	2.841	0.340	20	
2-Chlorophenol	1.10	0.330	3.330	0	33.0	23	134	1.333	19.2	20	
4-Chloro-3-methylphenol	2.12	0.330	3.330	0	63.6	22	147	2.323	9.22	20	

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX. DS-TRIB.

BatchID: 13246

Sample ID:	LCSD-13246	SampType:	LCSD	TestCode:	SW_8270SOL	Units:	mg/Kg	Prep Date:	9/19/2011	RunNo:	29395		
Client ID:	LCSS02	Batch ID:	13246	TestNo:	SW8270C			Analysis Date:	9/28/2011	SeqNo:	421220		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol		2.43	0.330	3.330	0	73.1	1	132	2.396	1.57	20		
Acenaphthene		1.80	0.330	3.330	0	54.1	47	145	1.974	9.13	20		
N-Nitrosodi-n-propylamine		1.33	0.330	3.330	0	39.9	1	230	1.563	16.2	20		
Pentachlorophenol		2.65	1.70	3.330	0	79.6	14	176	2.590	2.29	20		
Phenol		1.58	0.330	3.330	0	47.6	5	112	1.965	21.5	20	R	
Pyrene		2.86	0.330	3.330	0	85.9	52	115	2.914	1.86	20		
Surr: 2,4,6-Tribromophenol		2.82		3.330		84.5	19	122		0	20		
Surr: 2-Fluorobiphenyl		1.60		3.330		48.1	30	115		0	20		
Surr: 2-Fluorophenol		1.28		3.330		38.3	25	121		0	20		
Surr: Nitrobenzene-d5		1.13		3.330		33.9	23	120		0	20		
Surr: Phenol-d6		1.65		3.330		49.5	24	113		0	20		
Surr: Terphenyl-d14		3.29		3.330		98.9	18	137		0	20		

Qualifiers: */* Value exceeds Maximum Contaminant Level
M Manual Integration used to determine area response
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E Value above quantitation range
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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: R29089

Sample ID: 1109276-001ams	SampType: ms	TestCode: sw_8260tclp	Units: mg/L	Prep Date:			RunNo: 29089				
Client ID: ZZZZZZ	Batch ID: R29089	TestNo: SW8260B		Analysis Date: 9/15/2011			SeqNo: 416243				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.328	0.100	0.400	0	82.1	75	125				
Benzene	0.365	0.100	0.400	0	91.2	83	117				
Chlorobenzene	0.414	0.100	0.400	0	103	77	123				
Toluene	0.409	0.100	0.400	0	102	80	120				
Trichloroethene	0.403	0.100	0.400	0	101	79	121				
Surr: 4-Bromofluorobenzene	2,250		2,000		112	86	115				
Surr: Dibromofluoromethane	2,020		2,000		101	86	118				
Surr: Toluene-d8	2,010		2,000		101	88	110				

Sample ID: 1109276-001amsd	SampType: msd	TestCode: sw_8260tclp	Units: mg/L	Prep Date:			RunNo: 29089				
Client ID: ZZZZZZ	Batch ID: R29089	TestNo: SW8260B		Analysis Date: 9/15/2011			SeqNo: 416244				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.328	0.100	0.400	0	81.9	75	125	0.328	0.244	20	
Benzene	0.368	0.100	0.400	0	92.0	83	117	0.365	0.873	20	
Chlorobenzene	0.410	0.100	0.400	0	102	77	123	0.414	0.972	20	
Toluene	0.397	0.100	0.400	0	99.2	80	120	0.409	3.03	20	
Trichloroethene	0.401	0.100	0.400	0	100	79	121	0.403	0.547	20	
Surr: 4-Bromofluorobenzene	2,210		2,000		111	86	115		0	20	
Surr: Dibromofluoromethane	2,000		2,000		99.8	86	118		0	20	
Surr: Toluene-d8	2,060		2,000		103	88	110		0	20	

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Website: www.precisionanalytical.com

QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: R29089

Sample ID: BLK	SampType: mblk	TestCode: sw_8260liq	Units: mg/L	Prep Date:	RunNo: 29089						
Client ID: PBW	Batch ID: R29089	TestNo: SW8260B		Analysis Date: 9/15/2011	SeqNo: 416224						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.00500									
1,1,2,2-Tetrachloroethane	ND	0.00500									
1,1,2-Trichloroethane	ND	0.00500									
1,1-Dichloroethane	ND	0.00500									
1,1-Dichloroethene	ND	0.00500									
1,2-Dichloroethane	ND	0.00500									
1,2-Dichloropropane	ND	0.00500									
2-Hexanone	ND	0.0100									
4-Methyl-2-pentanone	ND	0.0200									
Acetone	ND	0.0500									
Benzene	ND	0.00500									
Bromodichloromethane	ND	0.00500									
Bromoform	ND	0.00500									
Bromomethane	ND	0.00500									
Carbon disulfide	ND	0.00500									
Carbon tetrachloride	ND	0.00500									
Chlorobenzene	ND	0.00500									
Chloroethane	ND	0.0100									
Chloroform	ND	0.00500									
Chloromethane	ND	0.00500									
cis-1,2-Dichloroethene	ND	0.00500									
cis-1,3-Dichloropropene	ND	0.00500									
Dibromochloromethane	ND	0.00500									
Ethylbenzene	ND	0.00500									
m,p-Xylene	ND	0.00500									
Methyl ethyl ketone	ND	0.0500									

Qualifiers: *X Value exceeds Maximum Contaminant Level
M Manual Integration used to determine area response
R RPD outside accepted recovery limits

E Value above quantitation range
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

H Holding times for preparation or analysis exceed
P Second column confirmation exceeds
S Spike outside acceptance limits



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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: R29089

Sample ID: BLK	SampType: mblk	TestCode: sw_8260liq	Units: mg/L	Prep Date:	RunNo: 29089
Client ID: PBW	Batch ID: R29089	TestNo: SW8260B		Analysis Date: 9/15/2011	SeqNo: 416224
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Methylene chloride	ND	0.0100			
o-Xylene	ND	0.00500			
Styrene	ND	0.0200			
Tetrachloroethene	ND	0.00500			
Toluene	ND	0.00500			
trans-1,2-Dichloroethene	ND	0.0100			
trans-1,3-Dichloropropene	ND	0.00500			
Trichloroethene	ND	0.00500			
Vinyl acetate	ND	0.0100			
Vinyl chloride	ND	0.00500			
Surr: 4-Bromofluorobenzene	103	100.0	103	86	115
Surr: Dibromofluoromethane	89.8	100.0	89.8	86	118
Surr: Toluene-d8	96.5	100.0	96.5	88	110

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: R29089

Sample ID: LCS	SampType: Ics	TestCode: epa_624aq	Units: mg/L	Prep Date:			RunNo: 29089				
Client ID: LCSW	Batch ID: R29089	TestNo: SW8260B		Analysis Date: 9/15/2011			SeqNo: 416226				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0241	0.00500	0.0200	0	121	52	162				
1,1,2,2-Tetrachloroethane	0.0220	0.00500	0.0200	0	110	46	157				
1,1,2-Trichloroethane	0.0186	0.00500	0.0200	0	93.3	52	150				
1,1-Dichloroethane	0.0176	0.00500	0.0200	0	88.0	59	155				
1,1-Dichloroethene	0.0164	0.00500	0.0200	0	82.0	1	234				
1,2-Dichloroethane	0.0217	0.00500	0.0200	0	109	49	155				
1,2-Dichloropropane	0.0189	0.00500	0.0200	0	94.4	1	210				
Benzene	0.0185	0.00500	0.0200	0	92.3	37	151				
Bromodichloromethane	0.0204	0.00500	0.0200	0	102	35	155				
Bromoform	0.0199	0.00500	0.0200	0	99.4	45	169				
Bromomethane	0.0220	0.00500	0.0200	0	110	1	242				
Carbon tetrachloride	0.0212	0.00500	0.0200	0	106	70	140				
Chlorobenzene	0.0197	0.00500	0.0200	0	98.5	37	160				
Chloroethane	0.0180	0.0100	0.0200	0	90.1	14	230				
Chloroform	0.0194	0.00500	0.0200	0	97.2	51	138				
Chloromethane	0.0192	0.00500	0.0200	0	96.0	1	273				
cis-1,3-Dichloropropene	0.0199	0.00500	0.0200	0	99.3	1	227				
Dibromochloromethane	0.0218	0.00500	0.0200	0	109	53	149				
Ethylbenzene	0.0212	0.00500	0.0200	0	106	37	162				
Methylene chloride	0.0217	0.0100	0.0200	0	108	1	221				
Tetrachloroethene	0.0165	0.00500	0.0200	0	82.5	64	148				
Toluene	0.0196	0.00500	0.0200	0	98.1	47	150				
trans-1,2-Dichloroethene	0.0170	0.0100	0.0200	0	84.9	54	156				
trans-1,3-Dichloropropene	0.0208	0.00500	0.0200	0	104	17	183				
Trichloroethene	0.0183	0.00500	0.0200	0	91.4	71	157				
Vinyl chloride	0.0160	0.00500	0.0200	0	80.0	1	251				

Qualifiers:	*X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: R29089

Sample ID: LCS	SampType: lcs	TestCode: epa_624aq	Units: mg/L	Prep Date:			RunNo: 29089				
Client ID: LCSW	Batch ID: R29089	TestNo: SW8260B		Analysis Date: 9/15/2011			SeqNo: 416226				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	104		100.0		104	86	115				
Surr: Dibromofluoromethane	92.0		100.0		92.0	86	118				
Surr: Toluene-d8	97.3		100.0		97.3	88	110				

Sample ID: LCSD	SampType: lcsd	TestCode: epa_624aq	Units: mg/L	Prep Date:			RunNo: 29089				
Client ID: LCSS02	Batch ID: R29089	TestNo: SW8260B		Analysis Date: 9/15/2011			SeqNo: 416227				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0253	0.00500	0.0200	0	127	52	162	0.0241	4.89	20	
1,1,2,2-Tetrachloroethane	0.0224	0.00500	0.0200	0	112	46	157	0.0220	1.62	20	
1,1,2-Trichloroethane	0.0189	0.00500	0.0200	0	94.4	52	150	0.0186	1.23	20	
1,1-Dichloroethane	0.0176	0.00500	0.0200	0	87.9	59	155	0.0176	0.171	20	
1,1-Dichloroethene	0.0166	0.00500	0.0200	0	82.8	1	234	0.0164	0.970	20	
1,2-Dichloroethane	0.0227	0.00500	0.0200	0	114	49	155	0.0217	4.54	20	
1,2-Dichloropropane	0.0201	0.00500	0.0200	0	100	1	210	0.0189	6.06	20	
Benzene	0.0193	0.00500	0.0200	0	96.7	37	151	0.0185	4.66	20	
Bromodichloromethane	0.0214	0.00500	0.0200	0	107	35	155	0.0204	4.97	20	
Bromoform	0.0205	0.00500	0.0200	0	103	45	169	0.0199	3.22	20	
Bromomethane	0.0224	0.00500	0.0200	0	112	1	242	0.0220	1.71	20	
Carbon tetrachloride	0.0224	0.00500	0.0200	0	112	70	140	0.0212	5.38	20	
Chlorobenzene	0.0207	0.00500	0.0200	0	103	37	160	0.0197	4.90	20	
Chloroethane	0.0182	0.0100	0.0200	0	90.9	14	230	0.0180	0.829	20	
Chloroform	0.0197	0.00500	0.0200	0	98.6	51	138	0.0194	1.53	20	
Chloromethane	0.0202	0.00500	0.0200	0	101	1	273	0.0192	4.93	20	
cis-1,3-Dichloropropene	0.0206	0.00500	0.0200	0	103	1	227	0.0199	3.56	20	
Dibromochloromethane	0.0228	0.00500	0.0200	0	114	53	149	0.0218	4.17	20	

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: R29089

Sample ID: LCSD	SampType: lcsd	TestCode: epa_624aq	Units: mg/L	Prep Date:			RunNo: 29089				
Client ID: LCSS02	Batch ID: R29089	TestNo: SW8260B		Analysis Date: 9/15/2011			SeqNo: 416227				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	0.0224	0.00500	0.0200	0	112	37	162	0.0212	5.69	20	
Methylene chloride	0.0221	0.0100	0.0200	0	111	1	221	0.0217	1.92	20	
Tetrachloroethene	0.0175	0.00500	0.0200	0	87.6	64	148	0.0165	6.00	20	
Toluene	0.0204	0.00500	0.0200	0	102	47	150	0.0196	3.80	20	
trans-1,2-Dichloroethene	0.0174	0.0100	0.0200	0	86.9	54	156	0.0170	2.27	20	
trans-1,3-Dichloropropene	0.0220	0.00500	0.0200	0	110	17	183	0.0208	5.19	20	
Trichloroethene	0.0192	0.00500	0.0200	0	95.8	71	157	0.0183	4.70	20	
Vinyl chloride	0.0165	0.00500	0.0200	0	82.4	1	251	0.0160	2.96	20	
Surr: 4-Bromofluorobenzene	107		100.0		107	86	115		0	20	
Surr: Dibromofluoromethane	91.1		100.0		91.1	86	118		0	20	
Surr: Toluene-d8	98.8		100.0		98.8	88	110		0	20	

Qualifiers: *X Value exceeds Maximum Contaminant Level
M Manual Integration used to determine area response
R RPD outside accepted recovery limits

E Value above quantitation range
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

H Holding times for preparation or analysis exceed
P Second column confirmation exceeds
S Spike outside acceptance limits



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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: R29210

Sample ID: BLK	SampType: mblk	TestCode: sw_8260SOL	Units: mg/Kg	Prep Date:	RunNo: 29210						
Client ID: PBS	Batch ID: R29210	TestNo: SW8260B		Analysis Date: 9/20/2011	SeqNo: 418031						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.00500									
1,1,2,2-Tetrachloroethane	ND	0.00500									
1,1,2-Trichloroethane	ND	0.00500									
1,1-Dichloroethane	ND	0.00500									
1,1-Dichloroethene	ND	0.00500									
1,2-Dichloroethane	ND	0.00500									
1,2-Dichloropropane	ND	0.00500									
2-Hexanone	ND	0.100									
4-Methyl-2-pentanone	ND	0.0200									
Acetone	ND	0.100									
Benzene	ND	0.00500									
Bromodichloromethane	ND	0.00500									
Bromoform	ND	0.00500									
Bromomethane	ND	0.00500									
Carbon disulfide	ND	0.00500									
Carbon tetrachloride	ND	0.00500									
Chlorobenzene	ND	0.00500									
Chloroethane	ND	0.00500									
Chloroform	ND	0.00500									
Chloromethane	ND	0.0100									
cis-1,2-Dichloroethene	ND	0.00500									
cis-1,3-Dichloropropene	ND	0.00500									
Dibromochloromethane	ND	0.00500									
Ethylbenzene	ND	0.00500									
m,p-Xylene	ND	0.0100									
Methyl ethyl ketone	ND	0.0200									

Qualifiers: *X Value exceeds Maximum Contaminant Level
M Manual Integration used to determine area response
R RPD outside accepted recovery limits

E Value above quantitation range
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

H Holding times for preparation or analysis exceed
P Second column confirmation exceeds
S Spike outside acceptance limits



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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: R29210

Sample ID: BLK	SampType: mblk	TestCode: sw_8260SOL	Units: mg/Kg	Prep Date:			RunNo: 29210				
Client ID: PBS	Batch ID: R29210	TestNo: SW8260B		Analysis Date: 9/20/2011			SeqNo: 418031				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	ND	0.0200									
o-Xylene	ND	0.00500									
Styrene	ND	0.00500									
Tetrachloroethene	ND	0.00500									
Toluene	ND	0.00500									
trans-1,2-Dichloroethene	ND	0.00500									
trans-1,3-Dichloropropene	ND	0.00500									
Trichloroethene	ND	0.00500									
Vinyl acetate	ND	0.0100									
Vinyl chloride	ND	0.00500									
Surr: 4-Bromofluorobenzene	107	100.0			107	74	121				
Surr: Dibromofluoromethane	115	100.0			115	80	120				
Surr: Toluene-d8	102	100.0			102	81	117				

Sample ID: LCS	SampType: lcs	TestCode: SW_8260sol	Units: mg/Kg	Prep Date:			RunNo: 29210				
Client ID: LCSS	Batch ID: R29210	TestNo: SW8260B		Analysis Date: 9/20/2011			SeqNo: 418033				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.0166	0.00500	0.0200	0	83.0	70	130				
Benzene	0.0170	0.00500	0.0200	0	85.0	70	130				
Chlorobenzene	0.0200	0.00500	0.0200	0	100	70	130				
Toluene	0.0193	0.00500	0.0200	0	96.6	70	130				
Trichloroethene	0.0202	0.00500	0.0200	0	101	70	130				
Surr: 4-Bromofluorobenzene	106	100.0			106	74	121				
Surr: Dibromofluoromethane	107	100.0			107	80	120				
Surr: Toluene-d8	96.6	100.0			96.6	81	117				

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds	
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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: R29210

Sample ID: LCSD	SampType: Icsd	TestCode: sw_8260sol	Units: mg/Kg	Prep Date:				RunNo: 29210			
Client ID: LCSS02	Batch ID: R29210	TestNo: SW8260B		Analysis Date: 9/20/2011				SeqNo: 418034			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	0.0153	0.00500	0.0200	0	76.4	70	130	0.0166	8.35	20
Benzene	0.0169	0.00500	0.0200	0	84.3	70	130	0.0170	0.768	20
Chlorobenzene	0.0216	0.00500	0.0200	0	108	70	130	0.0200	7.36	20
Toluene	0.0198	0.00500	0.0200	0	98.8	70	130	0.0193	2.25	20
Trichloroethene	0.0192	0.00500	0.0200	0	95.9	70	130	0.0202	4.93	20
Surr: 4-Bromofluorobenzene	107		100.0		107	74	121		0	20
Surr: Dibromofluoromethane	103		100.0		103	80	120		0	20
Surr: Toluene-d8	102		100.0		102	81	117		0	20

Sample ID: 1109347-014bms	SampType: MS	TestCode: SW_8260SOL	Units: mg/Kg	Prep Date:				RunNo: 29210			
Client ID: DST SED 2011-7	Batch ID: R29210	TestNo: SW8260B		Analysis Date: 9/20/2011				SeqNo: 418043			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	0.0371	0.0111	0.0442	0.00369	75.6	70	130			
Benzene	0.0376	0.0111	0.0442	0	85.0	70	130			
Chlorobenzene	0.0390	0.0111	0.0442	0	88.3	70	130			
Toluene	0.0445	0.0111	0.0442	0	101	70	130			
Trichloroethene	0.0519	0.0111	0.0442	0.00769	100	70	130			
Surr: 4-Bromofluorobenzene	163		221.0		73.7	74	121			S
Surr: Dibromofluoromethane	226		221.0		102	80	120			
Surr: Toluene-d8	224		221.0		101	81	117			

Qualifiers:	*X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: R29210

Sample ID:	1109347-014bmsd	SampType:	MSD	TestCode:	SW_8260SOL	Units:	mg/Kg	Prep Date:		RunNo:	29210	
Client ID:	DST SED 2011-7	Batch ID:	R29210	TestNo:	SW8260B			Analysis Date:	9/20/2011	SeqNo:	418044	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene		0.0360	0.0107	0.0426	0.00369	75.9	70	130	0.0371	2.92	20	
Benzene		0.0350	0.0107	0.0426	0	82.2	70	130	0.0376	7.09	20	
Chlorobenzene		0.0310	0.0107	0.0426	0	72.9	70	130	0.0390	22.8	20	R
Toluene		0.0368	0.0107	0.0426	0	86.4	70	130	0.0445	18.9	20	
Trichloroethene		0.0617	0.0107	0.0426	0.00769	127	70	130	0.0519	17.3	20	
Surr: 4-Bromofluorobenzene		182		213.0		85.6	74	121		0	20	
Surr: Dibromofluoromethane		216		213.0		101	80	120		0	20	
Surr: Toluene-d8		204		213.0		95.8	81	117		0	20	

Qualifiers: *X Value exceeds Maximum Contaminant Level
M Manual Integration used to determine area response
R RPD outside accepted recovery limits

E Value above quantitation range
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

H Holding times for preparation or analysis exceed
P Second column confirmation exceeds
S Spike outside acceptance limits



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Cleveland, OH 44128
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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: R29210

Sample ID: blk	SampType: MBLK	TestCode: sw_8260LIQ	Units: mg/L	Prep Date:	RunNo: 29210						
Client ID: PBW	Batch ID: R29210	TestNo: SW8260B		Analysis Date: 9/20/2011	SeqNo: 418045						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.00500									
1,1,2,2-Tetrachloroethane	ND	0.00500									
1,1,2-Trichloroethane	ND	0.00500									
1,1-Dichloroethane	ND	0.00500									
1,1-Dichloroethene	ND	0.00500									
1,2-Dichloroethane	ND	0.00500									
1,2-Dichloropropane	ND	0.00500									
2-Hexanone	ND	0.0100									
4-Methyl-2-pentanone	ND	0.0200									
Acetone	ND	0.0500									
Benzene	ND	0.00500									
Bromodichloromethane	ND	0.00500									
Bromoform	ND	0.00500									
Bromomethane	ND	0.00500									
Carbon disulfide	ND	0.00500									
Carbon tetrachloride	ND	0.00500									
Chlorobenzene	ND	0.00500									
Chloroethane	ND	0.0100									
Chloroform	ND	0.00500									
Chloromethane	ND	0.00500									
cis-1,2-Dichloroethene	ND	0.00500									
cis-1,3-Dichloropropene	ND	0.00500									
Dibromochloromethane	ND	0.00500									
Ethylbenzene	ND	0.00500									
m,p-Xylene	ND	0.00500									
Methyl ethyl ketone	ND	0.0500									

Qualifiers: *X Value exceeds Maximum Contaminant Level
M Manual Integration used to determine area response
R RPD outside accepted recovery limits

E Value above quantitation range
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit (PQL)

H Holding times for preparation or analysis exceed
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S Spike outside acceptance limits



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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: R29210

Sample ID: blk	SampType: MBLK	TestCode: sw_8260LIQ	Units: mg/L	Prep Date:	RunNo: 29210						
Client ID: PBW	Batch ID: R29210	TestNo: SW8260B		Analysis Date: 9/20/2011	SeqNo: 418045						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	ND	0.0100									
o-Xylene	ND	0.00500									
Styrene	ND	0.0200									
Tetrachloroethene	ND	0.00500									
Toluene	ND	0.00500									
trans-1,2-Dichloroethene	ND	0.0100									
trans-1,3-Dichloropropene	ND	0.00500									
Trichloroethene	ND	0.00500									
Vinyl acetate	ND	0.0100									
Vinyl chloride	ND	0.00500									
Surr: 4-Bromofluorobenzene	115	100.0			115	86	115				S
Surr: Dibromofluoromethane	92.4	100.0			92.4	86	118				
Surr: Toluene-d8	106	100.0			106	88	110				

Qualifiers: */* Value exceeds Maximum Contaminant Level
M Manual Integration used to determine area response
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ND Not Detected at the Reporting Limit
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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: R29210

Sample ID: LCS 20 UG/L	SampType: LCS	TestCode: epa_624aq	Units: mg/L	Prep Date:			RunNo: 29210				
Client ID: LCSW	Batch ID: R29210	TestNo: SW8260B		Analysis Date: 9/20/2011			SeqNo: 418095				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0291	0.00500	0.0200	0	146	52	162				
1,1,2,2-Tetrachloroethane	0.0216	0.00500	0.0200	0	108	46	157				
1,1,2-Trichloroethane	0.0191	0.00500	0.0200	0	95.4	52	150				
1,1-Dichloroethane	0.0180	0.00500	0.0200	0	89.8	59	155				
1,1-Dichloroethene	0.0156	0.00500	0.0200	0	77.8	1	234				
1,2-Dichloroethane	0.0268	0.00500	0.0200	0	134	49	155				
1,2-Dichloropropane	0.0194	0.00500	0.0200	0	97.2	1	210				
Benzene	0.0186	0.00500	0.0200	0	93.2	37	151				
Bromodichloromethane	0.0244	0.00500	0.0200	0	122	35	155				
Bromoform	0.0224	0.00500	0.0200	0	112	45	169				
Bromomethane	0.0184	0.00500	0.0200	0	92.2	1	242				
Carbon tetrachloride	0.0272	0.00500	0.0200	0	136	70	140				
Chlorobenzene	0.0234	0.00500	0.0200	0	117	37	160				
Chloroethane	0.0181	0.0100	0.0200	0	90.6	14	230				
Chloroform	0.0199	0.00500	0.0200	0	99.2	51	138				
Chloromethane	0.0200	0.00500	0.0200	0	100	1	273				
cis-1,3-Dichloropropene	0.0220	0.00500	0.0200	0	110	1	227				
Dibromochloromethane	0.0266	0.00500	0.0200	0	133	53	149				
Ethylbenzene	0.0260	0.00500	0.0200	0	130	37	162				
Methylene chloride	0.0222	0.0100	0.0200	0	111	1	221				
Tetrachloroethene	0.0180	0.00500	0.0200	0	90.2	64	148				
Toluene	0.0219	0.00500	0.0200	0	110	47	150				
trans-1,2-Dichloroethene	0.0166	0.0100	0.0200	0	83.2	54	156				
trans-1,3-Dichloropropene	0.0243	0.00500	0.0200	0	122	17	183				
Trichloroethene	0.0201	0.00500	0.0200	0	101	71	157				
Vinyl chloride	0.0156	0.00500	0.0200	0	78.0	1	251				

Qualifiers: *X Value exceeds Maximum Contaminant Level
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QC SUMMARY REPORT

WO#: 1109347
30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

BatchID: R29210

Sample ID: LCS 20 UG/L	SampType: LCS	TestCode: epa_624aq	Units: mg/L	Prep Date:			RunNo: 29210		
Client ID: LCSW	Batch ID: R29210	TestNo: SW8260B		Analysis Date: 9/20/2011			SeqNo: 418095		
Analyte									
	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Sur: 4-Bromofluorobenzene	117		100.0		117	86	115		S
Sur: Dibromofluoromethane	97.8		100.0		97.8	86	118		
Sur: Toluene-d8	104		100.0		104	88	110		

Sample ID: LCSD 20 UG/L	SampType: LCSD	TestCode: epa_624aq	Units: mg/L	Prep Date:			RunNo: 29210		
Client ID: LCSS02	Batch ID: R29210	TestNo: SW8260B		Analysis Date: 9/20/2011			SeqNo: 418096		
Analyte									
	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
1,1,1-Trichloroethane	0.0292	0.00500	0.0200	0	146	52	162	0.0291	0.514 20
1,1,2,2-Tetrachloroethane	0.0224	0.00500	0.0200	0	112	46	157	0.0216	3.45 20
1,1,2-Trichloroethane	0.0188	0.00500	0.0200	0	94.2	52	150	0.0191	1.21 20
1,1-Dichloroethane	0.0186	0.00500	0.0200	0	93.3	59	155	0.0180	3.83 20
1,1-Dichloroethene	0.0164	0.00500	0.0200	0	82.2	1	234	0.0156	5.50 20
1,2-Dichloroethane	0.0270	0.00500	0.0200	0	135	49	155	0.0268	1.08 20
1,2-Dichloropropane	0.0194	0.00500	0.0200	0	97.1	1	210	0.0194	0.0515 20
Benzene	0.0189	0.00500	0.0200	0	94.4	37	151	0.0186	1.28 20
Bromodichloromethane	0.0246	0.00500	0.0200	0	123	35	155	0.0244	0.612 20
Bromoform	0.0217	0.00500	0.0200	0	109	45	169	0.0224	2.90 20
Bromomethane	0.0187	0.00500	0.0200	0	93.6	1	242	0.0184	1.40 20
Carbon tetrachloride	0.0270	0.00500	0.0200	0	135	70	140	0.0272	0.737 20
Chlorobenzene	0.0216	0.00500	0.0200	0	108	37	160	0.0234	8.03 20
Chloroethane	0.0172	0.0100	0.0200	0	85.8	14	230	0.0181	5.44 20
Chloroform	0.0204	0.00500	0.0200	0	102	51	138	0.0199	2.73 20
Chloromethane	0.0192	0.00500	0.0200	0	96.0	1	273	0.0200	4.28 20
cis-1,3-Dichloropropene	0.0217	0.00500	0.0200	0	109	1	227	0.0220	1.10 20
Dibromochloromethane	0.0251	0.00500	0.0200	0	126	53	149	0.0266	5.80 20

Qualifiers:	*/X Value exceeds Maximum Contaminant Level	E Value above quantitation range	H Holding times for preparation or analysis exceed
M Manual Integration used to determine area response	ND Not Detected at the Reporting Limit	P Second column confirmation exceeds	
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30-Sep-11

Client: URS Corp.
Project: DETREX DS-TRIB.

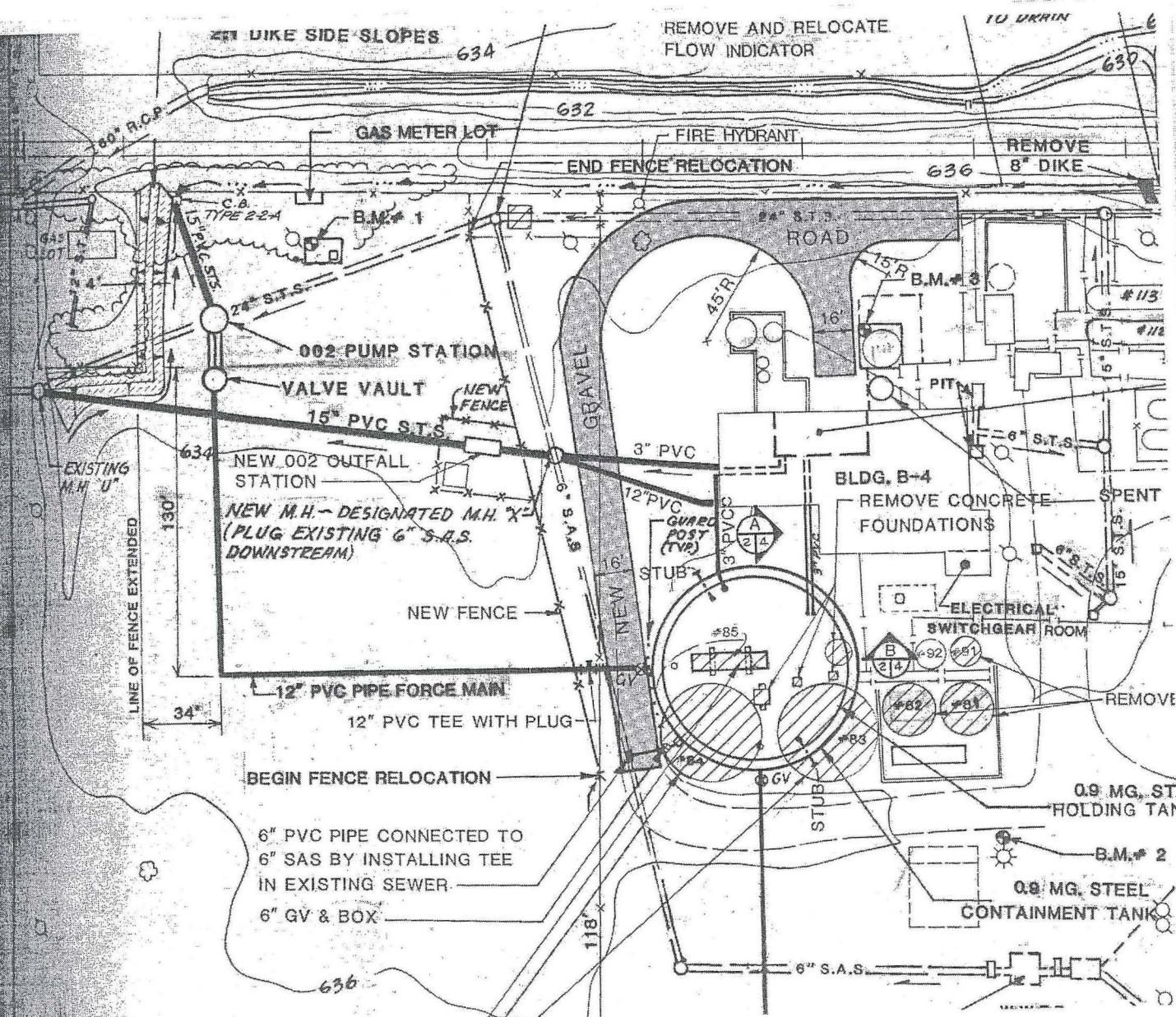
BatchID: R29210

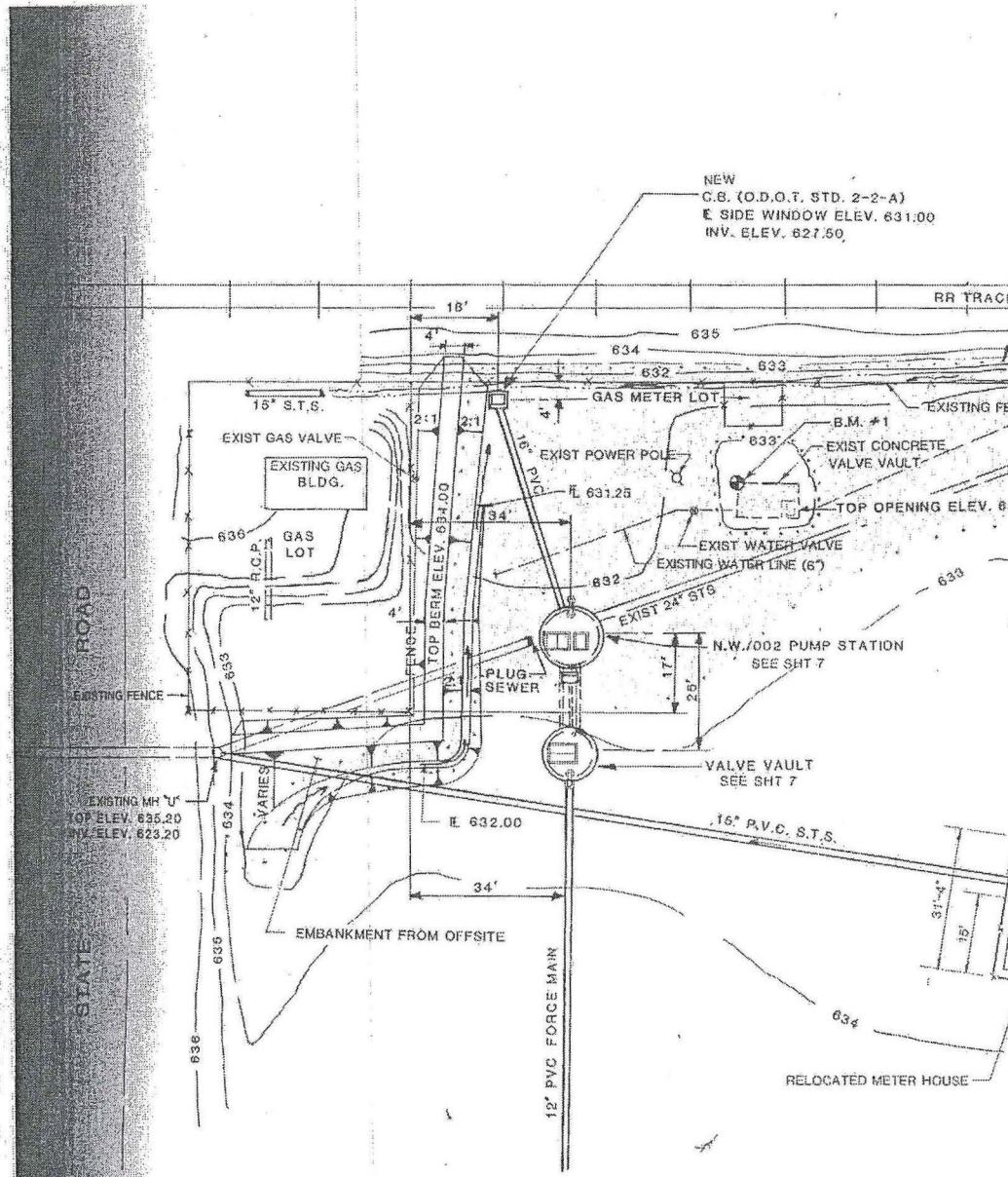
Sample ID:	LCSD 20 UG/L	SampType:	LCSD	TestCode:	epa_624aq	Units:	mg/L	Prep Date:		RunNo:	29210
Client ID:	LCSS02	Batch ID:	R29210	TestNo:	SW8260B	Analysis Date: 9/20/2011			SeqNo:	418096	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	0.0237	0.00500	0.0200	0	118	37	162	0.0260	9.26	20	
Methylene chloride	0.0220	0.0100	0.0200	0	110	1	221	0.0222	1.18	20	
Tetrachloroethene	0.0169	0.00500	0.0200	0	84.6	64	148	0.0180	6.47	20	
Toluene	0.0211	0.00500	0.0200	0	105	47	150	0.0219	4.00	20	
trans-1,2-Dichloroethene	0.0165	0.0100	0.0200	0	82.4	54	156	0.0166	0.966	20	
trans-1,3-Dichloropropene	0.0238	0.00500	0.0200	0	119	17	183	0.0243	2.12	20	
Trichloroethene	0.0196	0.00500	0.0200	0	98.0	71	157	0.0201	2.52	20	
Vinyl chloride	0.0150	0.00500	0.0200	0	75.0	1	251	0.0156	3.99	20	
Surr: 4-Bromofluorobenzene	117		100.0		117	86	115		0	20	S
Surr: Dibromofluoromethane	97.8		100.0		97.8	86	118		0	20	
Surr: Toluene-d8	100		100.0		100	88	110		0	20	

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



Attachment D
Detrex Site Storm Water Control Drawings





002 PUMP STATION SITE PLAN

SCALE 1"=20'



LEGEND

- EXISTING FENCE
- NEW FENCE
- EXISTING PIPE
- NEW PIPE

NOTES:

1. EMBANKMENT FOR DIKE SHALL BE FROM OFF SITE
2. THE AREA WITHIN THE LIMITS OF THE DIKE EMBANKMENT SHALL BE CLEARED AND GRUBBED. IN THE EMBANKMENT AREA THE TOP SOIL SHALL BE SCALPED TO A DEPTH OF 4' BEFORE BEGINNING CONSTRUCTION.
3. THE DIKE EMBANKMENT SHALL BE A CLAYEY SOIL SHALL BE PLACED IN 6" LAYERS AND COMPACTION